STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF FISH AND GAME

FISH BULLETIN 149

THE CALIFORNIA MARINE FISH CATCH FOR 1968 *and* HISTORICAL REVIEW 1916-68

by

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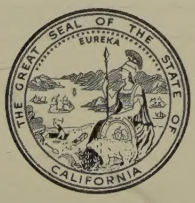

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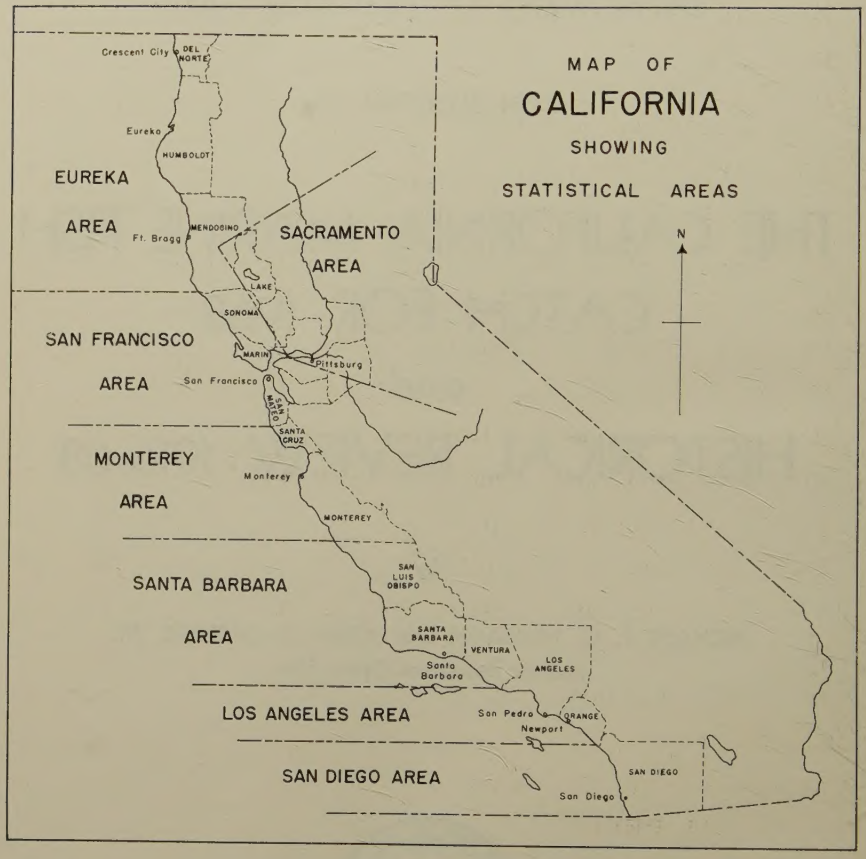
MAP OF
CALIFORNIA
SHOWING
STATISTICAL AREAS
N
EUREKA
AREA
SACRAMENTO
AREA
SAN FRANCISCO
AREA
MONTEREY
AREA
SANTA BARBARA
AREA
LOS ANGELES AREA
SAN DIEGO AREA
Crescent City
DEL NORTE
Eureka
HUMBOLDT
Ft. Bragg
MENDOCINO
LAKE
SONOMA
MARIN
Pittsburg
San Francisco
SAN MATEO
SANTA CRUZ
Monterey
MONTEREY
SAN LUIS OBISPO
SANTA BARBARA
VENTURA
Santa Barbara
LOS ANGELES
San Pedro
ORANGE
Newport
SAN DIEGO
San Diego

FIGURE 1

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FOREWORD

Catch bulletins provide records of the amounts and values of various living marine resources taken by California's commercial fisheries, and summarize the catches made by the partyboat sportfishing industry. They also detail the small quantities of freshwater fish taken commercially in inland areas. These data provide the basic background for managing California's marine fishery resources. The published figures are of national and international significance, and are used by fisheries scientists, legislators, educators, members of the fishing industry, and others interested in the State's fisheries.

This report for 1968 is the 28th in the series of catch bulletins. The first, published in 1929, contained the records of the 1926 and 1927 commercial fish catches.

California's fishery statistics are based on a system whereby fish dealers, processors, and partyboat operators send duplicate copies of their landing records to the Department. The statistical system and methods used to collect the records were fully described in Fish Bulletin 86, which reported the catch for 1950. In the intervening years, methods and equipment have been modified as conditions warranted, but the basic principles have remained unchanged.

Credit for this publication belongs to the personnel of the Marine Fisheries Statistics Unit who process the many documents necessary for its publication. Special acknowledgment is given to the wardens along the coast and the clerks in the field offices whose efforts insure the completeness of the records. We appreciate as well the cooperation of the many wholesale fish dealers and canners.

2—79932

EXPLANATION OF TABLES

The tables in this bulletin summarize the statistics of the various fishery operations in California during 1968. Five types of activity are being reported this year: landings of commercial fishermen in California; imports of tuna from other states or foreign countries destined for processing in California; sport catches of the partyboat fleet; landings of inshore species used for bait; and catches of boats supplying live bait for sportfishing. In addition, Appendix A shows the species composition of the salmon catch for 1968.

The statistics presented in this publication do not encompass all of the fishing activities in the State since not all of these activities are reported. For example: sportfishing from private boats or from shore is not reported, nor is the importation of fish for use in a fresh state. Department biologists do sample some facets of the sportfishery, but since this is part of specific studies, most of the results are not reported here.

The Department annually publishes a circular which enumerates some of the fishery products produced from the catch. The 1968 figures are contained in circular No. 43, "Statistical Report of Fresh, Canned, Cured, and Manufactured Fishery Products for 1968" (Heimann and Carlisle, 1969).

SOURCE OF DATA

Data on each commercial landing, inshore bait delivery, and import are recorded on receipts by fish dealers or processors at the time of delivery. Copies of these documents are transmitted to the Department twice each month. For each transaction, the dealer is required to provide the weight of each species and the price paid to the fishermen. The date of the transaction, the fisherman's name, the fishing boat registration number, and intended use of the fish (canning, fresh, etc.) are also required. In addition, the specific area where the fish were caught and the type of gear used are usually reported.

Partyboat catch data are obtained from logs completed by the boat operator. The log for each trip includes the number of each species taken, the number of anglers, the number of hours fished, and the specific area fished. The date, boat name, and boat registration number are also furnished. Copies of these records are sent to the Department monthly.

Operators of boats supplying live bait keep a voluntary daily log showing the number of sets, the species caught, the area fished, and the number of scoops of bait sold. Copies of these logs are furnished the Department monthly. These records represent almost all the live bait landings; nevertheless, the reported catch should be regarded as minimal.

Clerical personnel at field offices at Eureka, Monterey, Terminal Island, and San Diego maintain contact with fish dealers and local Fish and Game Wardens to insure that the records are accurate and

transmitted promptly. All data received by the Department are carefully edited to insure correctness and coded to facilitate processing. The data are then punched into cards and summarized with electric tabulating machines.

STATISTICAL AREAS

The State is divided into seven areas for the purpose of reporting fisheries statistics (Figure 1). Each statistical area is named for a major port within its boundaries. Sacramento area landing statistics are incorporated with San Francisco totals in the tables.

SPECIES

The common and scientific names of the species reported in 1968 are listed in Table 1. Some varieties are reported only collectively when, for economic or other reasons, a specific separation is not practical. A further combination of species is made in preparing the tables.

The "Miscellaneous (Animal Food)" category consists of a variety of low value species caught by trawling. Since it is impractical for the dealers to report the many species separately, Department biologists periodically sample this catch to determine its species composition. Based on this sampling, the percentage and weight compositions of the 1968 animal-food category are as follows:

Species	*Percent*	*Pounds*
Sablefish	30.5	789,838
Arrowtooth flounder	16.0	414,341
Hake	13.3	344,421
Rex sole	12.6	326,294
Dover sole	11.5	297,808
Rockfish	8.5	220,119
English sole	4.5	116,534
Twenty-one other species	3.1	80,279
	100.0	2,589,634

Salmon catches reported in the tables are for all species combined. However, biologists from the Department's Marine Resources Branch sample the commercial and sport salmon fisheries to determine the species composition of the catches and to obtain estimates of the unreported catch from skiffs. The sampling methods and results for 1952 through 1965 were detailed by Jensen and Swartzell (1967); since 1966 results have been presented annually in the catch bulletin. Appendix A details the salmon catch for 1968.

CONDITION

Most fish and shellfish are landed in a round condition; however, some species, such as salmon and swordfish, are usually eviscerated or cleaned before being brought ashore. The condition of fish landed or shipped into the State cannot always be determined, so the tables summarize the weights as reported to the Department without regard to condition.

Since 1963, oyster landings have been reported as packed weight rather than weight in the shell. The packed weight is estimated to be 15.5 percent of the live weight for Pacific oysters; 10.9 percent for eastern oysters.

Landings reported in measurements other than weight are equated to pounds using conversion factors determined by periodic sampling. The factors used in 1968 were:

Abalone, red	50 pounds per dozen
Abalone, pink	25 pounds per dozen
Abalone, white	25 pounds per dozen
Abalone, green	35 pounds per dozen
Clam, Washington	7 pounds per dozen
Crab, market	2 pounds each
Live bait	12.5 pounds per scoop

VALUE

Value is computed from prices paid to the fishermen. The area value figures are ascertained by summing the value of all the individual landings in that area. The value for an individual port within an area is calculated from the weights of each species landed at that port and the average price paid for the species in that area. When the price paid for an individual landing is not specified, the average price paid for the species in the area is used.

INSHORE BAIT

The inshore bait fishery takes several kinds of fish and invertebrates from bays, rivers, and intertidal regions for sale as bait. Records of this fishery have been published as a separate summary in the Catch Bulletin since 1963. Conversion factors used for inshore bait for 1968 were as follows:

Crab, sand	.041 pound per dozen
	4.5 pounds per gallon
Crab, shore	.013 pound per dozen
Mudsucker	.465 pound per dozen
Mussel	80 pounds per sack
Sculpin, staghorn	.465 pound per dozen
Shrimp, ghost	.082 pound per dozen

REFERENCES

Heimann, Richard F. G., and John G. Carlisle, Jr. 1969. Statistical report of fresh, canned, cured and manufactured fishery products for 1968. Calif. Dept. Fish and Game, Circular, (43) : 1–15.

Jensen, Paul T., and Phillip G. Swartzell. 1967. California salmon landings 1952 through 1965, Calif. Dept. Fish and Game, Fish Bull., (135) : 43–57.

TABLE 1
Common and Scientific Names of Fishes, Crustaceans, and Mollusks in the 1968 Catch

Common name	Scientific name
FISHES	
Anchovy	*Engraulis mordax*
Barracuda, California	*Sphyraena argentea*
Bass, rock	
Kelp bass	*Paralabrax clathratus*
Sand bass	*Paralabrax nebulifer*
Spotted sand bass	*Paralabrax maculatofasciatus*
Blacksmith	*Chromis punctipinnis*
Bonito, Pacific	*Sarda chiliensis*
Cabezon	*Scorpaenichthys marmoratus*
Carp	*Cyprinus carpio*
Croaker	
White	*Genyonemus lineatus*
Queenfish	*Seriphus politus*
Dolphinfish	*Coryphaena hippurus*
Eel	
California moray	*Gymnothorax mordax*
Wolf	*Anarrichthys ocellatus*
Flounder	
Arrowtooth	*Atheresthes stomias*
Starry	*Platichthys stellatus*
Small amounts of other flatfishes	
Flyingfish	*Cypselurus* spp.
Greenling, kelp	*Hexagrammos decagrammus*
Grouper	*Mycteroperca* spp.
Hake, Pacific	*Merluccius productus*
Halfmoon	*Medialuna californiensis*
Halibut	
California	*Paralichthys californicus*
Pacific	*Hippoglossus stenolepis*
Hardhead	
Sacramento blackfish	*Orthodon microlepidotus*
Hardhead	*Mylopharodon conocephalus*
Herring, Pacific	*Clupea pallasi*
Hitch	*Lavinia exilicauda*
Lingcod	*Ophiodon elongatus*
Mackerel	
Jack	*Trachurus symmetricus*
Pacific	*Scomber japonicus*
Mudsucker, longjaw	*Gillichthys mirabilis*
Opaleye	*Girella nigricans*
Perch	Member of family Embiotocidae
Pompano, Pacific	*Peprilus simillimus*
Rockfish	All species of *Sebastes* and *Sebastolobus*
Sablefish	*Anoplopoma fimbria*
Salmon	
King	*Oncorhynchus tshawytscha*
Silver	*Oncorhynchus kisutch*
Sanddab	*Citharichthys sordidus*
Sardine	*Sardinops caeruleus*
Sargo	*Anisotremus davidsoni*
Sculpin	*Scorpaena guttata*
Sculpin, Pacific staghorn	*Leptocottus armatus*
Sea bass, giant	*Stereolepis gigas*
Seabass, white	*Cynoscion nobilis*
Shark	
Basking	*Cetorhinus maximus*
Bay	*Carcharhinus lamiella*
Blue	*Prionace glauca*
Bonito	*Isurus oxyrinchus*
Leopard	*Triakis semifasciata*
Pacific angel	*Squatina californica*
Soupfin	*Galeorhinus zyopterus*
Spiny dogfish	*Squalus acanthias*
Thresher	*Alopias vulpinus*
Small amounts of others	
Sheephead, California	*Pimelometopon pulchrum*
Skate	
Bat ray	*Myliobatis californicus*
Big skate	*Raja binoculata*
California skate	*Raja inornata*
Longnose skate	*Raja rhina*
Shovelnose guitarfish	*Rhinobatos productus*
Small amounts of others	
Smelt	
Eulachon	*Thaleichthys pacificus*
Jacksmelt	*Atherinopsis californiensis*
Nightsmelt	*Spirinchus starksi*
Surf	*Hypomesus pretiosus*
Smelt, whitebait	*Allosmerus elongatus* *Spirinchus starksi* Young of several others
Sole	
Dover	*Microstomus pacificus*
English	*Parophrys vetulus*
Petrale	*Eopsetta jordani*
Rex	*Glyptocephalus zachirus*
Rock	*Lepidopsetta bilineata*
Sand	*Psettichthys melanostictus*
Scalyfin	*Isopsetta isolepis*
Small amounts of others	
Swordfish	*Xiphias gladius*
Tuna	
Albacore	*Thunnus alalunga*
Bigeye	*Thunnus obesus*
Bluefin	*Thunnus thynnus*
Skipjack	*Katsuwonus pelamis*
Yellowfin	*Thunnus albacares*
Turbot	
Curlfin	*Pleuronichthys decurrens*
Diamond	*Hypsopsetta guttulata*
Hornyhead	*Pleuronichthys verticalis*
Small amounts of others	
Wahoo	*Acanthocybium solanderi*
Whitefish, ocean	*Caulolatilus princeps*
Yellowtail, California	*Seriola dorsalis*
CRUSTACEANS	
Crab	
Market	*Cancer magister*
Rock	*Cancer productus*
	Cancer antennarius
	Cancer anthonyi
Sand	*Emerita analoga*
Shore	*Hemigrapsus oregonensis*
	Pachygrapsus crassipes
Spider	*Loxorhynchus* sp.
Lobster, spiny	*Panulirus interruptus*
Prawn	
Ridgeback	*Eusicyonia ingentis*
Spot	*Pandalus platyceros*
Shrimp	
Bay	*Crago franciscorum*
	Crago nigricauda
Ghost	*Callianassa californicus*
Ocean	*Pandalus jordani*
Red	*Hippolysmata californica*
MOLLUSKS	
Abalone	
Black	*Haliotis cracherodii*
Green	*Haliotis fulgens*
Pink	*Haliotis corrugata*
Red	*Haliotis rufescens*
White	*Haliotis sorenseni*
Clam	
Freshwater	*Corbicula fluminea*
Jackknife	*Tagelus californianus*
Littleneck	*Paphia staminea*
Purple	*Sanguinolaria nuttalli*
Washington	*Saxidomus nuttalli*
Mussel	
Bay	*Mytilus edulis*
Rock	*Mytilus californianus*
Octopus	*Octopus* spp.
Oyster	
Eastern	*Crassostrea virginica*
Giant Pacific	*Crassostrea gigas*
Sea snail	*Liparis atlanticus*
Squid	*Loligo opalescens*

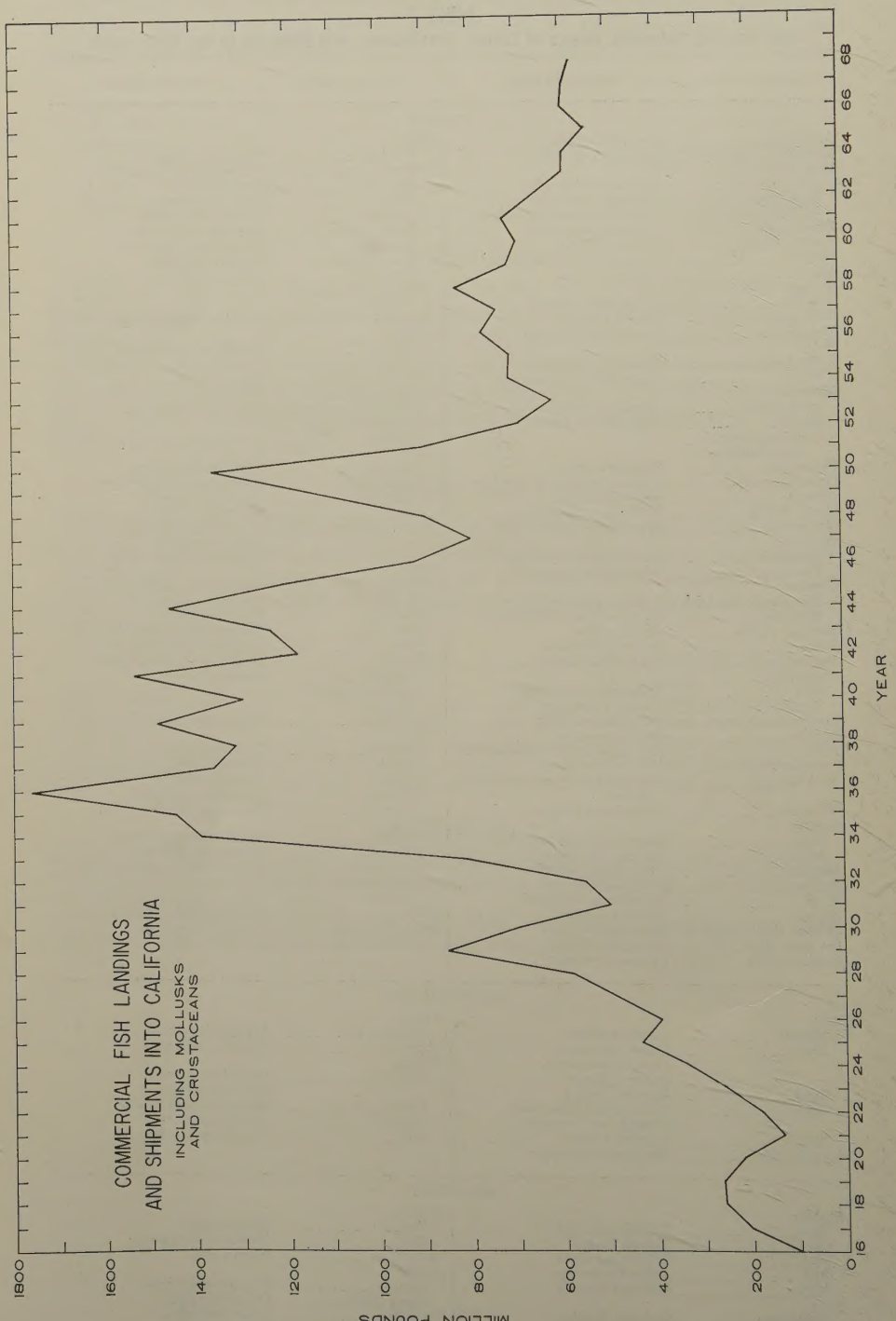

FIGURE 2. Total annual landings and shipments into California (see Table 2). Sardine deliveries to reduction ships, 1930–38, are included. Since 1965, tunas are the only species included in shipments.

TABLE 2

Total Annual Landings and Shipments Into California of Commercial Fish, Mollusks, and Crustaceans; Includes Sardine Deliveries to Reduction Ships During 1930 Through 1938

Year	Thousands of pounds	Year	Thousands of pounds
1916	95,003	1941	1,528,892
1917	209,877	1942	1,173,414
1918	261,134	1943	1,234,049
1919	266,270	1944	1,459,456
1920	222,004	1945	1,216,501
1921	135,348	1946	919,822
1922	182,343	1947	795,499
1923	253,875	1948	900,467
1924	340,446	1949	1,135,339
1925	437,502	1950	1,366,676
1926	394,964	1951	904,114
1927	487,166	1952	694,996
1928	583,527	1953	618,919
1929	856,854	1954	713,410
1930	702,189	1955	710,713
1931	502,390	1956	772,551
1932	556,139	1957	738,550
1933	821,805	1958	832,919
1934	1,390,798	1959	713,423
1935	1,448,017	1960	694,663
1936	1,764,900	1961	725,253
1937	1,362,984	1962	663,107
1938	1,310,596	1963	592,899
1939	1,486,535	1964	591,131
1940	1,297,518	1965*	544,480
		1966	591,533
		1967	589,028
		1968	567,214

* Beginning in 1965 only tuna shipments are recorded.

TABLE 3

Landings and Shipments of Leading Species Ranked by Pounds *

1967				1968			
Species	Rank	Thousands of pounds	Thousands of dollars	Species	Rank	Thousands of pounds	Thousands of dollars
Yellowfin tuna	1	167,252	$25,387	Yellowfin tuna	1	212,238	$36,438
Skipjack tuna	2	114,959	11,767	Albacore tuna	2	76,100	18,237
Albacore tuna	3	71,748	17,193	Skipjack tuna	3	60,674	7,959
Anchovy	4	69,609	701	Jack mackerel	4	55,668	2,122
Jack mackerel	5	38,181	1,447	Anchovy	5	31,076	284
Pacific bonito	6	21,219	891	Squid	6	24,933	553
Squid	7	19,602	438	Market crab	7	16,016	3,535
Bluefin tuna	8	13,736	1,667	Pacific bonito	8	14,922	620
Market crab	9	11,716	2,033	Bluefin tuna	9	13,016	1,968
Rockfish	10	9,799	680	Rockfish	10	9,444	668
Salmon	11	7,402	3,945	Dover sole	11	8,536	578
Dover sole	12	7,215	466	Salmon	12	6,952	4,014
English sole	13	5,822	510	English sole	13	5,811	501
Abalone	14	4,422	860	Abalone	14	4,475	1,124
Sablefish	15	3,798	315	Sablefish	15	3,219	229
Petrale sole	16	2,769	355	Pacific mackerel	16	3,133	168
Miscellaneous (animal food)	17	2,596	52	Petrale sole	17	2,947	389
Rex sole	18	1,766	149	Miscellaneous (animal food)	18	2,590	52
Bigeye tuna	19	1,481	207	Ocean shrimp	19	2,275	250
Ocean shrimp	20	1,413	164	Rex sole	20	1,931	163
All others		12,523	2,221	All others		11,258	1,935
Totals		**589,028**	**$71,448**	**Totals**		**567,214**	**$81,787**

* Only the tunas are included in the shipments.

TABLE 4

Number of Licensed Commercial Fishermen

Area of residence	License year*	
	1967–68	1968–69
Eureka	2,016	2,101
Sacramento	454	477
San Francisco	1,648	1,633
Monterey	757	743
Santa Barbara	947	915
Los Angeles	1,912	1,969
San Diego	1,600	1,613
Alaska, Washington and Oregon fishermen licensed in California	450	505
Mexican nationals licensed in California	12	6
Other	27	42
Totals	**9,823**	**10,004**

* April 1 to March 31.

TABLE 5

Number of Registered Fishing Boats by Length

License year*	Up to 24 feet	25 to 39 feet	40 to 64 feet	65 to 84 feet	85 to 99 feet	100 feet and over	Total
1967–68	1,550	1,773	1,081	118	25	99	4,646†
1968–69	1,677	1,829	1,080	137	25	106	4,854‡

* April 1 to March 31.
† The owners of 485 boats were issued fishing party licenses in 1967–68.
‡ The owners of 492 boats were issued fishing party licenses in 1968–69.

TABLE 6

Origin of Shipments Received for Processing in California During 1968 *

Shipped from: Species	Pounds shipped to each area		Total pounds
	Los Angeles	San Diego	
Oregon, Washington, Canada and Alaska:			
Tuna, albacore	16,246,863	38,054	16,284,917
Mexico and Central America:			
Tuna, bluefin	80,098	----	80,098
Tuna, skipjack	310,884	----	310,884
Tuna, yellowfin	1,835,553	----	1,835,553
Japan:			
Tuna, albacore	22,598,656	800,755	23,399,411
Tuna, yellowfin	44,978,436	1,157,931	46,136,367
China (Formosa):			
Tuna, albacore	329,800	----	329,800
Tuna, yellowfin	1,043,465	----	1,043,465
Malaya:			
Tuna, albacore	9,224,608	484,854	9,709,462
Tuna, bigeye	90,425	----	90,425
Tuna, yellowfin	6,686,909	339,493	7,026,402
Philippines:			
Tuna, yellowfin	540,358	----	540,358
South Pacific Islands:			
Tuna, albacore	4,648,320	775,412	5,423,732
Tuna, bigeye	61,965	----	61,965
Tuna, skipjack	1,128,302	----	1,128,302
Tuna, yellowfin	676,832	691,416	1,368,248
Africa:			
Tuna, albacore	1,468,276	4,406,974	5,875,250
Tuna, yellowfin	1,261,548	----	1,261,548
Total pounds	**113,211,298**	**8,694,889**	**121,906,187**

* Beginning in 1965 only tuna shipments are recorded.

TABLE 7

Origin of Commercial Fish Landings and Volume of Shipments Into California During 1968

Species	Landings of catches from					
	California waters	Waters north of State	Waters south of State	Total pounds	Tuna shipments*	Grand total
Fish:						
Anchovy	31,076,116	----	----	31,076,116	----	31,076,116
Barracuda, California	114,534	----	25,966	140,500	----	140,500
Blacksmith	137,634	----	----	137,634	----	137,634
Bonito, Pacific	14,903,357	----	18,572	14,921,929	----	14,921,929
Cabezon	20,106	----	----	20,106	----	20,106
Carp	297,793	----	----	297,793	----	297,793
Croaker, white	941,304	----	----	941,304	----	941,304
Flounder	853,366	2,791	----	856,157	----	856,157
Flounder, arrowtooth	13,400	----	----	13,400	----	13,400
Flyingfish	73,207	----	384	73,591	----	73,591
Grouper	----	----	230,913	230,913	----	230,913
Hake, Pacific	6,494	----	----	6,494	----	6,494
Halfmoon	49,532	----	85	49,617	----	49,617
Halibut, California	659,425	----	12,229	671,654	----	671,654
Halibut, Pacific	127	----	----	127	----	127
Hardhead	243,581	----	----	243,581	----	243,581
Herring, Pacific	357,869	----	----	357,869	----	357,869
Hitch	1,495	----	----	1,495	----	1,495
Lingcod	1,070,047	24,007	----	1,094,054	----	1,094,054
Mackerel, jack	55,650,082	----	17,600	55,667,682	----	55,667,682
Mackerel, Pacific	3,115,846	----	17,600	3,133,446	----	3,133,446
Opaleye	11,173	----	----	11,173	----	11,173
Perch	166,398	----	1,642	168,040	----	168,040
Pompano, Pacific	269,372	----	----	269,372	----	269,372
Rockfish	9,212,091	101,723	130,582	9,444,396	----	9,444,396
Sablefish	3,179,524	39,931	----	3,219,455	----	3,219,455
Salmon	6,951,800	131	----	6,951,931	----	6,951,931
Sanddab	713,068	1,554	----	714,622	----	714,622
Sardine	124,088	----	----	124,088	----	124,088
Sculpin	89,512	----	35,663	125,175	----	125,175
Sea bass, giant	14,919	----	143,502	158,421	----	158,421
Seabass, white	210,050	----	651,830	861,880	----	861,880
Shark	476,069	----	23,878	499,947	----	499,947
Sheephead, California	11,578	----	1,172	12,750	----	12,750
Skate	185,065	1,285	----	186,350	----	186,350
Smelt	443,062	----	----	443,062	----	443,062
Smelt, whitebait	238,061	----	----	238,061	----	238,061
Sole, Dover	8,040,493	495,028	----	8,535,521	----	8,535,521
Sole, English	5,738,574	72,864	----	5,811,438	----	5,811,438
Sole, petrale	2,891,797	54,808	----	2,946,605	----	2,946,605
Sole, rex	1,899,750	30,833	----	1,930,583	----	1,930,583
Sole, sand	211,376	----	----	211,376	----	211,376
Sole, miscellaneous	29,531	----	83	29,614	----	29,614
Swordfish	169,051	----	30,347	199,398	----	199,398
Tuna, albacore	11,617,055	2,779,875	680,229	15,077,159	61,022,572	76,099,731
Tuna, bigeye	----	----	109,558	109,558	152,390	261,948
Tuna, bluefin	3,737,291	1,125	9,197,859	12,936,275	80,098	13,016,373
Tuna, skipjack	410,713	----	58,823,928	59,234,641	1,439,186	60,673,827
Tuna, yellowfin	98,492	----	152,928,017	153,026,509	59,211,941	212,238,450
Turbot	69,368	136	----	69,504	----	69,504
Wahoo	----	----	6,310	6,310	----	6,310
Whitefish, ocean	2,116	----	531	2,647	----	2,647
Yellowtail, California	22,460	----	140,717	163,177	----	163,177
Miscellaneous	1,669	----	----	1,669	----	1,669
Miscellaneous (animal food)	2,421,825	167,809	----	2,589,634	----	2,589,634

TABLE 7—Continued

Origin of Commercial Fish Landings and Volume of Shipments Into California During 1968

Species	Landings of catches from				Tuna shipments*	Grand total
	California waters	Waters north of State	Waters south of State	Total pounds		
Crustacean:						
Crab, market	16,015,581	----	----	16,015,581	----	16,015,581
Crab, rock	351,657	----	----	351,657	----	351,657
Crab, spider	187	----	----	187	----	187
Lobster, spiny	312,483	----	----	312,483	----	312,483
Prawn, ridgeback	426	----	----	426	----	426
Prawn, spot	7,239	----	----	7,239	----	7,239
Shrimp, bay	10,465	----	----	10,465	----	10,465
Shrimp, ocean	2,269,920	4,850	----	2,274,770	----	2,274,770
Mollusk:						
Abalone	4,474,842	----	----	4,474,842	----	4,474,842
Octopus	17,444	219	----	17,663	----	17,663
Oyster, eastern	16,166	----	----	16,166	----	16,166
Oyster, giant Pacific	645,553	----	----	645,553	----	645,553
Squid	24,932,713	----	----	24,932,713	----	24,932,713
Miscellaneous mollusk	1,842	----	----	1,842	----	1,842
Total pounds	**218,299,224**	**3,778,969**	**223,229,197**	**445,307,390**	**121,906,187**	**567,213,577**

* For origin of shipments refer to Table 6. Beginning in 1965 only tuna shipments are recorded.

TABLE 8

Monthly Landings and Shipments Into California During 1968

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS:													
Fish:													
Anchovy	1,992,495	352,100	433,415	1,089,055	121,720	225,205	217,210	2,143,912	2,410,335	5,195,169	10,436,460	6,459,040	31,076,116
Barracuda, California	771	6,912	12	20,181	8,249	44,803	11,010	6,420	4,985	240	29,278	7,639	140,500
Blacksmith	----	----	----	----	95,216	3,605	9,400	16,200	----	13,213	----	----	137,634
Bonito, Pacific	3,946,361	663,619	199,968	227,103	327,500	111,248	292,820	4,139,392	3,693,932	318,084	171,009	830,893	14,921,929
Cabezon	2,691	6,436	1,314	36	340	432	570	321	252	347	4,080	3,287	20,106
Carp	119,325	47,228	19,295	21,650	1,900	----	----	----	----	14,785	41,210	32,400	297,793
Croaker, white	65,707	81,147	216,089	51,172	65,266	28,326	85,056	80,942	44,370	126,028	27,007	70,194	941,304
Flounder	123,471	127,265	63,121	12,177	14,310	70,054	119,128	83,464	104,218	38,736	63,258	36,955	856,157
Flounder, arrowtooth	1,870	3,445	595	600	3,210	3,165	515	----	----	----	----	----	13,400
Flyingfish	----	----	----	865	28,745	30,523	11,666	1,300	492	----	----	----	73,591
Grouper	49,736	23,425	----	170	----	----	----	17,690	10,150	18,350	38,040	73,352	230,913
Hake, Pacific	----	----	----	682	925	175	4,440	----	----	----	45	227	6,494
Halfmoon	1,247	65	750	2,211	7,865	9,555	4,536	7,659	5,719	7,519	2,405	85	49,617
Halibut, California	53,669	121,811	91,017	53,602	42,368	59,552	102,032	56,351	25,583	19,353	23,883	22,433	671,654
Halibut, Pacific	----	----	----	----	----	----	108	19	----	----	----	----	127
Hardhead	38,273	22,595	46,771	40,231	6,355	755	200	100	----	23,060	23,386	41,855	243,581
Herring, Pacific	36,780	16,220	----	103,250	112,894	17,450	66,240	4,800	175	----	----	60	357,869
Hitch	----	----	----	----	----	----	----	----	----	1,025	250	220	1,495
Lingcod	51,158	49,500	42,005	57,891	90,595	120,696	205,628	206,633	125,851	64,605	51,957	27,535	1,094,054
Mackerel, jack	4,004,841	2,814,652	815,118	5,247,071	5,747,393	6,870,686	3,346,108	2,924,035	2,710,212	7,352,106	7,134,067	6,701,393	55,667,682
Mackerel, Pacific	179,634	93,140	94,112	68,516	327,082	57,286	96,506	64,963	159,921	494,607	863,388	634,291	3,133,446
Opaleye	----	----	1,302	157	1,975	608	715	849	1,150	3,780	362	275	11,173
Perch	18,900	15,837	25,215	28,011	3,586	3,309	11,733	29,938	14,419	6,018	4,383	6,721	168,040
Pompano, Pacific	17,313	15,149	24,660	17,447	38,519	22,304	43,560	29,779	25,403	21,845	3,086	10,307	269,372
Rockfish	768,419	1,013,520	884,175	904,814	918,152	696,543	1,125,750	908,069	683,053	621,597	523,689	396,615	9,444,396
Sablefish	291,802	403,834	252,964	131,590	241,199	204,636	178,895	155,590	171,675	429,803	457,644	299,823	3,219,455
Salmon	----	----	----	316,450	1,138,865	1,875,546	2,350,624	1,049,660	220,786	----	----	----	6,951,931
Sanddab	47,702	55,415	42,922	42,490	82,721	63,168	99,385	95,827	43,948	67,837	47,505	25,702	714,622
Sardine	12,995	26,222	6,503	743	56,485	1,677	3,365	437	8,679	6,024	955	----	124,088
Sculpin	4,408	13,703	11,393	7,917	7,232	21,278	21,228	16,262	3,610	1,414	6,942	9,788	125,175
Sea bass, giant	15,719	24,365	6,122	15,224	9,493	1,919	3,149	24,749	18,182	9,942	13,807	15,750	158,421
Seabass, white	70,338	69,629	85,681	64,799	48,272	21,708	41,590	53,336	112,556	79,150	128,864	85,957	861,880
Shark	43,235	18,342	13,700	15,071	73,186	92,820	61,945	48,551	34,534	28,069	44,142	26,352	499,947
Sheephead, California	1,292	974	1,513	1,267	1,914	1,783	1,699	429	701	139	220	819	12,750
Skate	14,131	12,787	12,427	12,560	13,325	21,595	14,510	13,592	16,689	25,821	17,590	11,323	186,350
Smelt	9,088	8,844	6,070	12,511	49,761	56,691	110,750	79,318	35,009	38,771	14,225	22,024	443,062
Smelt, whitebait	1,006	23,856	21,984	30,638	56,908	64,015	34,493	5,161	----	----	----	----	238,061
Sole, Dover	156,734	338,284	264,126	400,073	1,278,948	1,119,580	1,042,019	1,314,346	863,435	1,139,836	470,757	147,383	8,535,521
Sole, English	729,324	666,401	367,364	409,747	407,558	430,155	548,882	558,027	657,750	457,529	354,776	223,925	5,811,438
Sole, petrale	288,697	303,440	193,220	228,995	279,794	193,192	283,742	320,861	226,346	236,198	185,511	206,609	2,946,605

Sole, rex	172,544	185,929	110,352	129,351	131,352	140,935	207,336	219,554	190,679	189,828	132,634	120,089	1,930,583
Sole, sand	26,491	30,507	15,885	4,275	395	5,260	1,551	13,175	21 680	24,260	33,992	33,905	211,376
Sole, miscellaneous	2,480	4,792	4,205	1,413	1,334	1,261	3,622	4,067	1,546	53	2,075	2,766	29,614
Swordfish	----	----	----	----	502	10,703	41,517	88,603	39,445	15,752	2,876	----	199,398
Tuna, albacore	----	----	----	----	----	----	328,012	2,149,267	5,356,954	6,787,506	422,849	32,571	15,077,159
Tuna, bigeye	----	----	----	----	----	----	----	21,994	24,946	9,115	----	53,503	109,558
Tuna, bluefin	----	----	----	----	----	----	3,073,860	4,305,076	4,493,003	1,029,712	15,634	18,990	12,936,275
Tuna, skipjack	----	144,906	873,097	3,144,005	6,468,429	10,753,835	6,754,474	3,214,037	3,576,497	,730,437	6,794,267	10,780,657	59,234,641
Tuna, yellowfin	----	925,151	35,338,068	30,481,831	31,913,389	14,218,222	24,639,047	7,807,579	1,663,009	1,112,448	3,418,708	1,509,057	153,026,509
Turbot	8,052	14,234	10,402	5,577	5,059	3,846	2,444	1,400	4 235	7,085	5,051	2,119	69,504
Wahoo	----	3,400	----	----	----	2,910	----	----	----	----	----	----	6,310
Whitefish, ocean	971	----	----	53	80	37	109	669	421	28	14	265	2,647
Yellowtail, California	13,095	9,482	2,057	1,675	3,499	3,915	2,388	10,403	11,690	22,989	44,550	37,434	163,177
Miscellaneous	----	3	----	50	738	87	221	101	----	133	331	5	1,669
Miscellaneous (animal food)	93,740	102,687	108,930	171,859	297,536	320,676	398,950	360,620	321,340	314,981	68,558	29,757	2,589,634
Crustacean:													
Crab, market	4,737,539	2,663,045	868,408	483,977	386,462	31,350	606	----	----	----	451,510	6,392,684	16,015,581
Crab, rock	35,219	25,029	27,235	33,076	27,060	22,872	39,679	36,829	26,412	25,907	27,132	25,207	351,657
Crab, spider	----	----	----	187	----	----	----	----	----	----	----	----	187
Lobster, spiny	60,212	39,260	23,200	----	----	----	----	----	----	90,449	53,230	46,132	312,483
Prawn, ridgeback	----	----	----	----	----	----	----	----	----	----	----	426	426
Prawn, spot	2,849	2,107	406	162	----	----	----	----	----	----	599	1,116	7,239
Shrimp, bay	940	685	2,040	1,570	1,125	500	----	2,100	1,070	----	390	45	10,465
Shrimp, ocean	----	----	----	----	762,140	890,085	519,435	84,840	18,040	200	----	----	2,274,770
Mollusk:													
Abalone	395,393	----	235,232	434,662	414,264	503,639	489,847	422,129	509,30€	380,744	314,301	375,325	4,474,842
Octopus	2,342	5,476	2,584	884	1,778	1,290	1,361	687	300	192	518	251	17,663
Oyster, eastern	1,806	1,350	894	1,212	1,281	1,152	1,006	1,333	1,488	1,643	1,376	1,625	16,166
Oyster, giant Pacific	82,324	75,695	73,474	82,140	74,593	27,851	20,341	21,519	18,753	61,956	42,030	64,877	645,553
Squid	3,587,575	4,656,515	708,850	363,997	5,122,439	4,315,805	2,620,700	1,487,650	811,940	261,432	9,545	986,265	24,932,713
Miscellaneous mollusk	----	630	596	616	----	----	----	----	----	----	----	----	1,842
Total pounds	22,382,704	16,331,045	42,650,841	44,979,539	57,323,251	43,802,275	49,697,743	34,712,614	29,526,874	33,927,850	33,026,351	36,946,303	445,307.390
SHIPMENTS:*													
Fish:													
Tuna, albacore	2,709,166	5,985,638	6,615,003	3,904,812	1,980,746	942,298	4,148,364	12,534,877	10,230,118	5,591,605	803,486	5,576,459	61,022,572
Tuna, bigeye	----	55,773	41,825	----	54,792	----	----	----	----	----	----	----	152,390
Tuna, bluefin	----	----	----	----	----	----	80,098	----	----	----	----	----	80,098
Tuna, skipjack	----	----	----	----	609,710	293,580	147,988	387,908	----	----	----	----	1,439,186
Tuna, yellowfin	2,789,699	793,915	3,776,714	4,437,185	9,403,942	3,498,688	7,263,376	5,405,984	4,025,674	9,609,448	4,224,714	3,982,602	59,211.941
Total pounds	5,498,865	6,835,326	10,433,542	8,341,997	12,049,190	4,734,566	11,639,826	18,328,769	14,255,792	15,201.053	5,028,200	9,559,061	121,906,187
Grand total	27,881,569	23,166,371	53,084,383	53,321,536	69,372,441	48,536,841	61,337,569	53,041,383	43,782,666	49,128,903	38,054,551	46,505,364	567,213,577

* For origin of shipments refer to Table 6. Beginning in 1965 only tuna shipments are recorded.

TABLE 9

Monthly Landings of Commercial Fishing Boats in the Eureka Area During 1968

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
California waters:													
Fish:													
Bonito, Pacific	----	----	----	----	----	----	----	----	48	----	----	----	48
Cabezon	----	----	----	----	----	----	26	40	----	----	----	----	66
Flounder	69,435	58,990	10,905	2,096	12,478	48,300	111,453	74,030	72,620	16,109	35,067	15,872	527,355
Flounder, arrowtooth	1,470	2,490	595	600	2,080	3,165	----	----	----	----	----	----	10,400
Halibut, California	----	----	----	----	----	----	----	----	----	----	----	150	150
Halibut, Pacific	----	----	----	----	----	----	108	19	----	----	----	----	127
Lingcod	18,643	26,325	26,245	41,542	57,158	82,151	155,242	152,870	109,525	45,431	31,614	12,068	758,814
Mackerel, jack	----	----	----	----	----	----	----	----	245	----	----	----	245
Perch	7,797	6,854	10,818	5,863	----	----	3,780	16,662	6,581	1,158	949	825	61,287
Rockfish	221,399	283,038	209,667	228,876	210,360	166,919	397,743	387,062	277,937	199,143	139,165	81,087	2,802,396
Sablefish	150,163	237,166	128,970	69,753	129,305	76,040	35,983	58,053	111,363	313,659	246,786	153,512	1,710,753
Salmon	----	----	----	62,932	743,160	1,056,583	1,496,275	612,761	92,501	----	----	----	4,064,212
Sanddab	12,597	18,222	17,752	16,323	30,497	35,346	54,240	45,445	8,159	16,656	11,100	7,547	273,884
Shark	47	145	----	----	47	----	----	----	90	312	742	300	1,683
Skate	----	----	----	4,130	2,755	8,743	4,097	7,462	7,396	10,987	4,856	----	50,426
Smelt	----	130	71	624	19,010	23,381	65,094	38,963	22,492	7,154	362	----	177,281
Smelt, whitebait	891	22,249	20,352	29,058	56,388	63,525	34,493	5,161	----	----	----	----	232,117
Sole, Dover	156,284	321,338	116,875	350,667	1,091,867	1,067,703	894,635	1,159,563	828,586	1,112,596	449,144	147,238	7,696,496
Sole, English	309,258	374,942	184,529	258,428	206,638	298,102	420,697	369,735	497,382	194,212	116,267	55,749	3,285,939
Sole, petrale	211,227	203,631	97,281	120,917	128,397	119,535	165,973	207,678	162,947	182,299	138,328	182,761	1,920,974
Sole, rex	99,882	123,766	63,472	99,040	95,215	124,820	188,004	193,550	158,282	149,213	94,482	99,380	1,489,106
Sole, sand	140	240	----	----	160	----	594	953	----	60	80	620	2,847
Sole, miscellaneous	----	----	----	----	8	233	77	30	252	----	----	----	600
Tuna, albacore	----	----	----	----	----	----	25,159	1,480,745	1,779,520	133,739	21,950	----	3,441,113
Turbot	----	----	----	----	43	220	267	95	----	245	450	500	1,820
Miscellaneous	----	----	----	----	----	----	----	12	----	----	----	----	12
Miscellaneous (animal food)	85,135	86,236	75,720	139,148	194,854	236,186	214,216	193,171	244,480	237,033	30,116	7,439	1,743,734
Crustacean:													
Crab, market	4,656,661	2,582,753	849,687	472,903	379,848	28,734	606	----	----	----	200	6,204,462	15,175,854
Crab, rock	----	----	----	----	185	225	115	150	40	55	25	20	815
Shrimp, ocean	----	----	----	----	743,335	871,770	464,005	----	----	----	----	----	2,079,110

Mollusk:													
Octopus	155	124	199	154	248	235	556	239	105	97	44	117	2,273
Oyster, giant Pacific	54,358	49,960	50,140	60,586	55,429	5,152	4,344	6,728	6,360	36,243	10,064	25,816	365,180
Miscellaneous mollusk	----	630	436	470	----	----	----	----	----	----	----	----	1,536
Total pounds	6,055,542	4,399,229	1,863,714	1,964,110	4,159,465	4,317,068	4,737,782	5,011,177	4,386,911	2,656,401	1,331,791	6,995,463	47,878,653
Waters north of State:													
Fish:													
Flounder	----	----	122	210	----	----	314	30	2,115	----	----	----	2,791
Lingcod	----	----	392	1,063	7,393	952	6,507	6,563	1,137	----	----	----	24,007
Rockfish	----	----	6,490	9,788	26,685	869	22,405	18,165	10,639	1,994	4,688	----	101,723
Sablefish	----	----	12,867	5,920	7,730	----	3,737	4,737	32	297	4,611	----	39,931
Salmon	----	----	----	----	----	----	131	----	----	----	----	----	131
Sanddab	----	----	157	154	471	656	----	116	----	----	----	----	1,554
Skate	----	----	----	----	----	1,285	----	----	----	----	----	----	1,285
Sole, Dover	----	----	135,931	36,091	104,252	6,030	85,701	79,406	15,472	10,922	21,223	----	495,028
Sole, English	----	----	2,349	15,899	18,871	7,066	3,267	4,290	21,122	----	----	----	72,864
Sole, petrale	----	----	2,482	10,602	21,040	3,037	9,301	3,846	4,500	----	----	----	54,808
Sole, rex	----	----	5,515	5,341	8,910	1,071	1,167	2,482	4,605	----	1,742	----	30,833
Turbot	----	----	----	----	----	136	----	----	----	----	----	----	136
Miscellaneous (animal food)	----	----	12,325	9,126	58,317	----	29,979	48,664	----	9,398	----	----	167,809
Crustacean:													
Shrimp, ocean	----	----	----	----	4,850	----	----	----	----	----	----	----	4,850
Mollusk:													
Octopus	----	----	----	----	219	----	----	----	----	----	----	----	219
Total pounds	----	----	178,630	94,194	258,738	21,102	162,509	168,299	59,622	22,611	32,264	----	997,969
Grand total	**6,055,542**	**4,399,229**	**2,042,344**	**2,058,304**	**4,418,203**	**4,338,170**	**4,900,291**	**5,179,476**	**4,446,533**	**2,679,012**	**1,364,055**	**6,995,463**	**48,876,622**

TABLE 10

Monthly Landings of Commercial Fishing Boats in the San Francisco Area During 1968 *

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
California waters:													
Fish:													
Anchovy	----	----	----	----	1,000	2,000	3,480	7,023	9,000	7,960	7,560	13,440	51,463
Bonito, Pacific	----	----	----	----	----	----	----	24	760	----	25	----	809
Cabezon	----	870	----	----	40	----	----	----	----	----	----	----	910
Carp	119,325	47,228	19,295	21,650	1,900	----	----	----	----	14,785	41,210	32,400	297,793
Croaker, white	465	3,975	595	746	1,082	1,702	210	1,431	2,294	1,390	1,673	65	15,628
Flounder	45,708	61,271	36,718	5,694	1,384	19,769	3,338	3,690	21,444	16,245	19,332	14,100	248,693
Flounder, arrowtooth	400	955	----	----	1,130	----	515	----	----	----	----	----	3,000
Hake, Pacific	----	----	----	----	525	----	----	----	----	----	----	----	525
Halibut, California	22,693	58,155	32,872	4,456	365	2,138	14,192	16,891	14,252	10,734	9,430	4,825	191,003
Hardhead	38,273	22,595	46,771	40,231	6,355	755	200	100	----	23,060	23,386	41,855	243,581
Herring, Pacific	36,780	16,220	----	----	----	----	----	----	175	----	----	60	53,235
Hitch	----	----	----	----	----	----	----	----	----	1,025	250	220	1,495
Lingcod	9,744	12,282	8,157	9,492	17,852	29,817	25,102	34,168	12,342	13,588	9,455	6,338	188,337
Mackerel, jack	----	----	----	----	----	30	----	----	----	----	----	----	30
Perch	1,323	2,282	5,115	9,395	----	----	596	1,601	631	531	280	854	22,608
Rockfish	87,641	78,594	23,723	36,924	25,005	48,693	22,921	48,250	49,346	67,061	59,191	36,782	584,131
Sablefish	12,226	20,175	9,415	----	16,513	12,656	21,610	11,720	12,585	6,590	8,125	5,665	137,280
Salmon	----	----	----	129,936	306,843	677,391	717,358	316,895	50,383	----	----	----	2,198,806
Sanddab	23,099	22,410	13,970	17,860	33,530	14,510	26,775	27,928	20,014	30,992	22,895	11,920	265,903
Seabass, white	46	----	50	----	21	146	----	90	----	56	----	----	409
Shark	13,145	9,343	3,541	2,006	360	3,926	2,303	2,057	7,952	6,746	6,616	1,694	59,689
Skate	6,000	6,900	6,930	3,488	3,401	6,880	2,000	1,400	3,120	9,367	7,183	6,056	62,725
Smelt	354	2,191	2,681	8,182	18,484	17,874	13,168	7,719	6,601	4,505	660	----	82,419
Smelt, whitebait	115	1,607	1,632	1,580	520	490	----	----	----	----	----	----	5,944
Sole, Dover	----	16,651	10,785	12,350	73,544	28,432	39,368	51,842	8,407	14,313	----	----	255,692
Sole, English	352,342	217,994	84,110	74,515	92,237	76,850	67,929	120,273	97,242	195,618	180,600	137,536	1,697,246
Sole, petrale	52,400	48,044	39,439	48,925	61,770	32,080	42,546	58,705	41,771	25,750	28,970	9,975	490,375
Sole, rex	34,440	36,265	19,745	14,030	11,402	3,969	9,110	10,002	14,997	29,110	15,940	5,945	204,955
Sole, sand	16,508	28,129	13,355	1,490	235	4,845	957	12,152	18,900	21,630	31,015	29,945	179,161
Sole, miscellaneous	----	----	----	----	----	500	1,681	2,562	965	----	755	----	6,463
Tuna, albacore	----	----	----	----	----	----	12,047	112,630	651,788	118,407	68,388	----	963,260
Turbot	7,155	11,540	5,860	3,640	1,640	2,080	1,880	965	4,235	5,985	3,935	1,355	50,270
Miscellaneous	----	----	----	----	----	----	----	25	----	8	316	----	349

Crustacean:													
Crab, market	80,572	80,208	18,421	9,892	6,013	2,514	----	----	----	----	451,231	187,826	836,677
Shrimp, bay	940	685	2,040	1,570	1,125	500	----	2,100	1,070	----	390	45	10,465
Shrimp, ocean	----	----	----	----	13,955	18,315	55,460	84,840	18,040	200	----	----	190,810
Mollusk:													
Abalone	2,400	----	----	492	1,300	2,158	5,787	1,258	438	133	375	850	15,191
Octopus	1,912	5,227	2,313	730	1,311	1,055	790	410	195	90	470	86	14,589
Oyster, eastern	1,806	1,350	894	1,212	1,281	1,152	1,006	1,333	1,488	1,643	1,376	1,625	16,166
Oyster, giant Pacific	11,833	10,805	7,849	7,476	7,159	8,320	7,788	9,640	7,577	15,797	19,109	26,290	139,643
Squid	----	----	----	----	----	----	----	----	190	----	----	----	190
Miscellaneous mollusk	----	----	160	146	----	----	----	----	----	----	----	----	306
Grand total	**979,645**	**823,951**	**416,436**	**468,108**	**709,282**	**1,021,547**	**1,100,117**	**949,724**	**1,078,202**	**643,319**	**1,020,141**	**577,752**	**9,788,224**

* Includes Sacramento area landings.

TABLE 11

Monthly Landings of Commercial Fishing Boats in the Monterey Area During 1968

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
California waters:													
Fish:													
Anchovy	1,697,500	56,000	278,200	835,500	3,600	54,200	18,800	2,056,220	2,359,750	527,829	412,000	202,200	8,501,799
Bonito, Pacific	532	45	----	----	----	----	----	494	5,542	2,482	583	----	9,678
Cabezon	1,497	3,710	713	----	45	----	60	94	80	287	3,729	2,521	12,736
Croaker, white	11,960	7,960	3,345	2,473	8,750	5,312	10,904	31,866	39,193	40,509	15,064	17,821	195,157
Flounder	7,820	4,285	4,306	1,296	298	1,965	3,903	5,634	8,033	6,382	8,859	6,983	59,764
Hake, Pacific	----	----	----	650	400	----	4,440	----	----	----	----	----	5,490
Halibut, California	10,343	9,946	6,651	768	938	2,779	21,430	14,223	773	648	4,529	6,312	79,340
Herring, Pacific	----	----	----	103,250	112,894	17,450	66,240	4,800	----	----	----	----	304,634
Lingcod	13,481	7,574	3,932	3,186	3,268	4,498	11,277	6,659	1,036	3,563	8,494	4,350	71,318
Mackerel, jack	437,000	6,875	19,950	13,165	26,805	17,095	19,928	356,595	11,899	9,450	41,850	----	960,612
Perch	733	1,249	1,387	4,650	20	----	264	2,094	1,967	368	310	685	13,727
Pompano, Pacific	741	156	136	879	9,799	1,588	5,314	18,040	21,217	13,609	79	190	71,748
Rockfish	132,911	192,097	247,497	339,714	394,572	246,098	294,998	210,337	51,966	122,444	108,132	53,889	2,394,655
Sablefish	129,298	145,991	101,712	55,917	87,651	115,880	117,565	80,620	47,310	109,257	198,122	140,646	1,329,969
Salmon	----	----	----	122,668	80,421	125,016	112,969	97,502	34,029	----	----	----	572,605
Sanddab	11,692	14,693	10,955	8,153	18,190	12,581	18,340	22,338	15,775	20,169	13,510	6,235	172,631
Sardine	----	----	----	----	----	----	1,131	129	20	----	----	----	1,280
Sea bass, giant	----	----	----	----	----	----	----	----	----	----	66	----	66
Seabass, white	179	501	94	37	112	----	796	599	2,457	400	7,615	2,209	14,999
Shark	3,550	2,572	445	438	2,104	5,830	8,384	4,661	1,680	1,943	17,314	11,699	60,620
Skate	7,651	4,962	5,400	4,545	6,945	4,293	8,357	4,683	5,975	5,385	5 437	5,057	68,690
Smelt	7,355	4,793	3,283	775	4,094	2,006	6,656	3,841	2,981	8,562	----	4,971	49,317
Sole, Dover	450	295	535	705	7,945	12,245	15,570	13,870	3,810	725	320	145	56,615
Sole, English	30,840	29,223	42,228	36,549	68,770	34,840	44,310	52,790	23,090	36,705	26,464	14,035	439,844
Sole, petrale	12,182	22,420	26,817	16,906	44,920	23,430	37,097	26,935	5,725	19,995	8,260	3,675	248,362
Sole, rex	22,167	19,850	15,335	7,265	13,570	7,605	5,410	7,125	7,860	6,995	9,795	1,300	124,277
Sole, sand	5,175	805	1,670	2,725	----	415	----	70	2,780	2,570	2,727	3,115	22,052
Sole, miscellaneous	1,747	2,423	1,203	8	467	85	1,187	656	207	----	1,244	2,666	11,893
Tuna, albacore	----	----	----	----	----	----	1,586	22,339	874,452	509,891	13,043	----	1,421.311
Turbot	15	----	----	----	----	----	----	----	----	----	70	----	85
Miscellaneous	----	----	----	50	705	----	188	----	----	----	----	----	943

Crustacean:													
Crab, market	218	5	204	74	58	----	----	----	----	----	79	383	1,021
Crab, rock	28	----	----	----	----	----	----	----	----	----	81	85	194
Prawn, spot	2,849	2,107	406	162	----	----	----	----	----	----	599	1,116	7,239
Mollusk:													
Octopus	161	103	65	----	----	----	15	----	----	----	----	37	381
Squid	----	----	----	153,707	5,106,889	4,150,400	2,614,600	1,487,650	811,750	253,095	----	----	14,578,091
Grand total	**2,550,075**	**540,640**	**776,469**	**1,716,215**	**6,004,230**	**4,845,611**	**3,451,719**	**4,532,864**	**4,341,357**	**1,703,263**	**908,375**	**492,325**	**31,863,143**

TABLE 12

Monthly Landings of Commercial Fishing Boats in the Santa Barbara Area During 1968

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
California waters:													
Fish:													
Anchovy	2,775	132,960	4,020	11,340	8,370	10,970	16,565	19,620	20,565	815,500	2,235,740	729,500	4,007,925
Barracuda, California	----	----	----	956	4	----	----	----	----	----	8,426	----	9,386
Bonito, Pacific	60,082	51,740	10,473	----	358	103	3,923	1,329	4,495	4,579	1,658	116,030	254,770
Cabezon	1,171	1,830	601	36	247	432	480	187	172	60	351	766	6,333
Croaker, white	----	775	----	----	8	----	13,835	435	----	385	83	----	15,521
Flounder	508	2,719	11,070	2,881	150	20	35	80	6	----	----	----	17,469
Hake, Pacific	----	----	----	32	----	175	----	----	----	----	45	227	479
Halibut, California	8,572	25,095	22,912	26,357	31,032	45,856	50,039	10,838	4,035	1,402	2,009	3,571	231,718
Lingcod	9,089	3,167	3,279	2,608	4,924	3,203	7,489	6,373	1,790	2,015	2,368	4,246	50,556
Mackerel, jack	367,700	385,070	187,620	284,970	75,650	1,219,380	864,225	464,300	155,750	246,350	----	----	4,251,015
Perch	4,666	3,317	1,627	3,072	----	----	912	1,979	950	609	674	1,184	18,990
Pompano, Pacific	----	300	----	----	15	----	----	1,430	----	440	----	----	2,185
Rockfish	108,521	355,787	283,114	197,402	177,075	192,872	329,607	228,361	271,195	191,144	158,405	124,517	2,618,000
Sablefish	----	----	----	----	----	60	----	460	385	----	----	----	905
Salmon	----	----	----	905	8,441	16,556	23,891	22,492	43,857	----	----	----	116,142
Sanddab	314	90	----	----	----	----	----	----	----	20	----	----	424
Sardine	----	19,980	----	----	----	----	----	----	----	----	----	----	19,980
Sculpin	----	----	170	----	----	17	----	----	----	----	----	----	187
Sea bass, giant	140	18	----	228	86	74	256	----	----	----	176	----	978
Seabass, white	3,710	819	134	1,377	3,683	4,638	4,561	9,117	4,829	2,588	3,399	4,802	43,657
Shark	2,487	2,924	2,510	1,906	45,144	64,291	14,150	9,410	2,169	7,750	4,752	3,635	161,128
Sheephead, California	94	52	----	22	156	----	517	----	----	----	13	27	881
Skate	480	925	97	397	224	325	56	47	198	82	114	210	3,155
Sole, Dover	----	----	----	260	1,340	5,170	6,745	9,665	7,160	1,280	70	----	31,690
Sole, English	36,884	44,242	54,148	24,356	21,042	13,297	12,679	10,939	18,914	30,994	31,200	16,605	315,300
Sole, petrale	12,888	29,345	27,201	31,645	23,647	15,110	28,659	23,697	11,403	8,154	9,953	10,198	231,900
Sole, rex	16,055	6,048	6,285	3,675	2,255	3,470	3,645	6,395	4,935	4,510	10,675	13,464	81,412
Sole, sand	4,668	1,333	860	60	----	----	----	----	----	----	170	225	7,316
Sole, miscellaneous	350	2,369	2,774	1,086	400	416	203	112	48	10	58	60	7,886
Swordfish	----	----	----	----	----	188	8,115	16,016	11,687	919	657	----	37,582
Tuna, albacore	----	----	----	----	----	----	4,327	72,624	1,110,553	922,396	14,192	7,323	2,131,415
Tuna, skipjack	----	----	----	----	----	----	----	----	354	----	----	----	354
Turbot	882	2,694	4,542	1,937	3,376	1,410	297	340	----	855	596	264	17,193
Whitefish, ocean	----	----	----	----	----	----	----	----	95	----	----	----	95
Yellowtail, California	----	----	----	----	7	----	----	----	----	----	----	----	7
Miscellaneous	----	----	----	----	----	----	----	12	----	----	----	----	12
Miscellaneous (animal food)	8,605	16,451	20,885	23,585	44,365	84,490	154,755	118,785	76,860	68,550	38,442	22,318	678,091

Crustacean:													
Crab, market	88	79	96	1,108	543	102	----	----	----	----	----	13	2,029
Crab, rock	7,892	8,918	6,667	13,252	10,783	9,325	9,683	8,359	7,969	6,329	8,035	11,819	109,031
Crab, spider	----	----	----	187	----	----	----	----	----	----	----	----	187
Lobster, spiny	23,495	18,759	12,595	----	----	----	----	----	----	21,390	16,818	19,215	112,272
Prawn, ridgeback	----	----	----	----	----	----	----	----	----	----	----	426	426
Mollusk:													
Abalone	286,455	----	112,208	227,490	188,649	237,964	224,211	192,544	257,607	137,942	96,003	194,060	2,155,133
Octopus	----	----	----	----	----	----	----	38	----	----	----	----	38
Oyster, giant Pacific	16,133	14,930	15,485	14,078	12,005	14,379	8,209	5,151	4,816	9,916	12,857	12,771	140,730
Squid	402,355	1,532,970	196,315	28,040	2,050	67,100	5,300	----	----	----	----	426,265	2,660,395
Grand total	**1,387,059**	**2,665,706**	**987,688**	**905,248**	**666,029**	**2,011,398**	**1,797,369**	**1,241,135**	**2,022,797**	**2,486,169**	**2,657,939**	**1,723,741**	**20,552,278**

TABLE 13
Monthly Landings and Shipments of Commercial Fish Into the Los Angeles Area During 1968

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
California waters:													
Fish:													
Anchovy	292,220	163,140	151,195	242,215	108,750	158,035	178,365	61,049	21,020	3,843,880	7,781,160	5,513,900	18,514,929
Barracuda, California	----	6,578	12	15,455	6,635	37,627	5,791	5,101	172	6	6,857	----	84,234
Blacksmith	----	----	----	----	95,216	3,605	9,400	16,200	----	13,213	----	----	137,634
Bonito, Pacific	3,882,327	611,798	189,475	224,936	326,754	99,382	275,751	4,122,185	3,680,724	309,624	168,355	701,470	14,592,781
Croaker, white	50,939	67,369	211,659	47,183	55,290	20,802	59,502	46,870	2,703	83,624	9,512	51,130	706,583
Flounder	----	----	----	----	----	----	85	----	----	----	----	----	85
Flyingfish	----	----	----	865	28,745	30,523	11,155	1,300	492	----	----	----	73,080
Halfmoon	----	65	750	1,740	871	----	141	2,792	3,209	7,519	2,250	----	19,337
Halibut, California	4,206	24,308	21,784	20,471	9,083	8,462	13,611	10,634	1,398	3,464	6,372	6,165	129,958
Lingcod	121	37	----	----	----	15	----	----	7	----	----	415	595
Mackerel, jack	3,200,141	2,405,107	607,548	4,948,936	5,644,938	5,634,181	2,461,955	2,103,140	2,542,318	7,096,306	7,092,137	6,701,393	50,438,100
Mackerel, Pacific	179,122	75,505	94,060	68,239	326,609	54,390	96,019	64,963	159,861	494,507	863,373	634,201	3,110,849
Opaleye	----	----	1,302	157	1,975	608	615	849	1,150	3,780	362	----	10,798
Perch	4,244	2,135	6,182	4,207	621	1,241	4,607	6,481	3,453	2,892	2,042	1,645	39,750
Pompano, Pacific	16,572	14,693	24,524	16,568	28,705	20,716	38,246	10,309	4,186	7,796	3,007	10,117	195,439
Rockfish	144,122	55,887	70,317	46,068	35,351	25,697	39,331	3,709	10,298	22,540	23,330	58,346	534,996
Sablefish	115	502	----	----	----	----	----	----	----	----	----	----	617
Salmon	----	----	----	9	----	----	----	10	16	----	----	----	35
Sanddab	----	----	10	----	33	75	30	----	----	----	----	----	148
Sardine	12,995	6,242	6,506	736	56,485	1,677	2,234	308	8,659	4,024	955	----	100,821
Sculpin	440	1,808	67	90	1,236	1,071	250	1,184	647	158	439	294	7,684
Sea bass, giant	281	357	372	235	344	713	2,406	3,396	1,485	82	44	92	9,807
Seabass, white	4,394	1,512	1,099	3,304	9,315	10,741	15,214	23,588	16,947	2,684	505	917	90,220
Shark	5,087	1,194	3,240	5,558	18,885	4,800	11,424	7,195	9,203	3,912	3,196	2,940	76,634
Sheephead, California	431	398	1,068	425	1,013	234	68	222	135	42	107	183	4,326
Skate	----	----	----	----	----	69	----	----	----	----	----	----	69
Smelt	1,247	1,700	35	2,930	8,173	13,430	25,832	28,795	2,935	18,550	13,025	16,818	133,470
Sole, English	----	----	----	----	----	----	----	----	----	----	245	----	245
Sole, petrale	----	----	----	----	----	----	166	----	----	----	----	----	166
Sole, miscellaneous	----	----	----	----	13	----	63	519	38	30	----	----	663
Swordfish	----	----	----	----	502	9,784	29,567	37,842	23,095	12,011	1,079	----	113,880
Tuna, albacore	----	----	----	----	----	----	64,352	138,067	630,492	1,674,527	266,235	8,464	2,782,137
Tuna, bluefin	----	----	----	----	----	----	64,566	1,357,249	1,324,648	920,420	----	----	3,666,883
Tuna, skipjack	----	----	----	----	----	----	----	230,808	133,048	35,974	----	----	399,830
Tuna, yellowfin	----	----	----	----	----	----	----	55,938	41,005	130	16	----	97,089
Whitefish, ocean	78	----	----	----	80	----	47	----	----	28	14	----	247
Yellowtail, California	----	288	----	----	303	698	991	1,625	381	39	----	----	4,325
Miscellaneous	----	----	----	----	33	87	30	20	----	65	15	5	255
Crustacean:													
Crab, rock	26,285	15,423	19,472	19,824	16,092	13,322	29,881	28,320	18,403	16,689	17,789	13,085	234,585
Lobster, spiny	26,208	14,896	6,174	----	----	----	----	----	----	32,602	14,234	14,691	108,805

Mollusk:													
Abalone	16,455	----	83,841	148,013	162,538	169,339	184,589	162,924	162,924	160,847	176,259	135,811	1,563,540
Octopus	108	21	4	----	----	----	----	----	----	5	2	11	151
Squid	3,185,220	3,123,545	512,535	182,250	13,500	97,800	800	----	----	8,337	9,545	560,000	7,693,532
Total pounds	11,053,358	6,594,508	2,013,231	6,000,414	6,958,088	6,419,124	3,627,084	8,533,592	8,805,052	14,780,307	16,462,461	14,432,093	105,679,312
Waters north of State:													
Fish:													
Tuna, albacore	----	----	----	----	----	----	----	----	255,862	2,489,825	29,930	----	2,775,617
Tuna, bluefin	----	----	----	----	----	----	----	----	----	1,125	----	----	1,125
Total pounds	----	----	----	----	----	----	----	----	255,862	2,490,950	29,930	----	2,776,742
Waters south of State:													
Fish:													
Barracuda, California	----	----	----	----	----	----	----	----	----	----	12,885	----	12,885
Bonito, Pacific	1,555	----	----	475	----	----	----	1,990	----	----	130	12,983	17,133
Grouper	41,972	23,425	----	170	----	----	----	17,690	10,150	18,110	38,040	58,075	207,632
Halfmoon	85	----	----	----	----	----	----	----	----	----	----	----	85
Halibut, California	----	----	----	61	143	----	----	----	180	----	9	329	722
Mackerel, jack	----	17,600	----	----	----	----	----	----	----	----	----	----	17,600
Mackerel, Pacific	----	17,600	----	----	----	----	----	----	----	----	----	----	17,600
Perch	----	----	----	----	162	----	----	385	500	350	----	130	1,527
Rockfish	34,222	19,117	6,870	3,406	4,791	----	----	2,700	6,775	7,805	13,370	22,495	121 551
Sea bass, giant	10,120	21,812	4,030	13,535	8,432	179	----	20,965	16,435	8,267	13,127	9,939	126,841
Seabass, white	52,911	55,707	80,212	48,812	24,325	148	15,695	16,155	78,710	68,860	109,016	62,628	613,179
Shark	980	115	300	1,433	----	----	----	----	5,000	----	925	720	9,473
Sheephead, California	----	----	415	115	----	----	----	----	----	----	----	90	620
Sole, miscellaneous	----	----	----	----	----	----	----	83	----	----	----	----	83
Swordfish	----	----	----	----	----	----	----	3,068	----	----	----	----	3,068
Tuna, albacore	----	----	----	----	----	----	40,263	55,334	10,623	39,814	----	----	146,034
Tuna, bigeye	----	----	----	----	----	----	----	21,994	----	9,115	----	----	31,109
Tuna, bluefin	----	----	----	----	----	----	2,245,453	1,570,426	2,459,173	107,876	----	----	6,382,928
Tuna, skipjack	----	144,906	713,106	2,392,526	5,216,718	7,701,172	5,607,429	2,215,398	2,947,024	5,352,312	3,305,729	9,180,085	44,776,405
Tuna, yellowfin	----	924,605	29,848,350	21,366,867	19,883,059	9,506,904	18,929,954	4,934,504	1,479,529	992,164	2,917,041	1,243,393	112,026,370
Wahoo	----	3,400	----	----	----	2,790	----	----	----	----	----	----	6,190
Whitefish, ocean	412	----	----	----	----	37	----	----	----	----	----	----	449
Yellowtail, California	12,925	8,905	2,057	1,337	1,085	300	320	935	5,555	21,221	40,311	33,476	128,427
Total pounds	155,182	1,237,192	30,655,340	23,828,737	25,138,715	17,211,530	26,839,114	8,861,627	7,019,654	6,625,894	6,450,583	10,624,343	164,647,911
SHIPMENTS:*													
Fish:													
Tuna, albacore	2,709,166	5,779,440	6,615,003	3,600,881	1,746,872	808,502	4,071,121	9,896,747	7,544,880	5,591,605	803,486	5,348,820	54,516,523
Tuna, bigeye	----	55,773	41,825	----	54,792	----	----	----	----	----	----	----	152,390
Tuna, bluefin	----	----	----	----	----	----	80,098	----	----	----	----	----	80,098
Tuna, skipjack	----	----	----	----	609,710	293,580	147,988	387,908	----	----	----	----	1,439,186
Tuna, yellowfin	2,789,699	793,915	3,497,857	4,254,985	8,603,118	3,498,688	7,263,376	4,714,568	4,025,674	9,531,198	4,224,714	3,825,309	57,023,101
Total pounds	5,498,865	6,629,128	10,154,685	7,855,866	11,014,492	4,600,770	11,562,583	14,999,223	11,570,554	15,122,803	5,028,200	9,174,129	113.211,298
Grand total	**16,707,405**	**14,460.828**	**42,823,256**	**37,685,017**	**43,111,295**	**28,231,424**	**42,028,781**	**32,394 442**	**27 651,122**	**39,019,954**	**27,971,174**	**34,230,565**	**386,315,263**

* or origin of shipments refer to Table 6. Beginning in 1965 only tuna shipments are recorded.

TABLE 14

Monthly Landings and Shipments of Commercial Fish Into the San Diego Area During 1968

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
LANDINGS FROM:													
California waters:													
Fish:													
Barracuda, California	771	334	----	3,590	1,610	5,936	5,219	1,319	155	234	940	806	20,914
Bonito, Pacific	1,865	36	20	689	388	11,763	13,031	13,370	2,363	1,399	71	276	45,271
Cabezon	23	26	----	----	8	----	4	----	----	----	----	----	61
Croaker, white	2,343	1,068	490	770	136	510	605	340	180	120	675	1,178	8,415
Flyingfish	----	----	----	----	----	----	127	----	----	----	----	----	127
Halfmoon	1,162	----	----	471	6,994	9,556	4,395	4,867	2,510	----	155	85	30,195
Halibut, California	7,855	3,656	3,107	1,489	519	317	210	2,232	2,151	3,105	1,534	1,081	27,256
Lingcod	80	115	----	----	----	55	11	----	14	8	26	118	427
Mackerel, jack	----	----	----	----	----	----	----	----	----	----	80	----	80
Mackerel, Pacific	512	35	52	277	473	2,896	487	----	60	100	15	90	4,997
Opaleye	----	----	----	----	----	----	100	----	----	----	----	275	375
Perch	137	----	86	709	2,753	2,068	1,574	736	337	110	128	1,398	10,036
Rockfish	39,603	29,000	34,380	41,213	43,818	15,395	18,515	9,485	4,727	8,796	17,247	15,734	277,913
Sanddab	----	----	78	----	----	----	----	----	----	----	----	----	78
Sardine	----	----	----	7	----	----	----	----	----	2,000	----	----	2,007
Sculpin	3,968	11,895	11,156	7,827	5,996	16,100	1,886	2,597	2,963	1,256	6,503	9,494	81,641
Sea bass, giant	166	----	1,187	86	423	708	464	388	162	234	115	135	4,068
Seabass, white	8,834	8,292	1,232	3,223	8,901	5,873	5,306	3,787	7,530	175	1,382	6,230	60,765
Shark	17,939	1,002	1,783	2,365	6,488	13,973	25,261	25,228	8,440	5,252	3,492	5,092	116,315
Sheephead, California	767	524	----	705	723	1,549	992	----	419	97	76	519	6,371
Smelt	132	30	----	----	----	----	----	----	----	----	178	235	575
Sole, petrale	----	----	----	----	20	----	----	----	----	----	----	----	20
Sole, miscellaneous	383	----	228	319	446	27	411	105	36	13	18	40	2,026
Swordfish	----	----	----	----	----	731	2,959	5,274	4,663	2,822	1,140	----	17,589
Tuna, albacore	----	----	----	----	----	----	74,609	101,432	37,008	646,849	1,137	16,784	877,819
Tuna, bluefin	----	----	----	----	----	----	----	70,369	21	----	18	----	70,408
Tuna, skipjack	----	----	----	----	----	----	----	10,427	46	56	----	----	10,529
Tuna, yellowfin	----	----	----	----	----	----	----	1,360	43	----	----	----	1,403
Whitefish, ocean	481	----	----	53	----	----	----	669	306	----	----	265	1,774
Yellowtail, California	170	120	----	296	2,039	2,917	600	7,843	2,062	285	484	1,312	18,128
Miscellaneous	----	3	----	----	----	----	3	32	----	60	----	----	98
Crustacean:													
Crab, rock	1,014	688	1,096	----	----	----	----	----	----	2,834	1,202	198	7,032
Lobster, spiny	10,509	5,605	4,431	----	----	----	----	----	----	36,457	22,178	12,226	91,406

Mollusk:													
Abalone	90,083	----	39,183	58,667	61,777	94,178	75,260	65,403	88,337	81,822	41,664	44,604	740,978
Octopus	6	1	3	----	----	----	----	----	----	----	2	----	12
Squid	----	----	----	----	----	505	----	----	----	----	----	----	505
Total pounds	188,803	62,430	98,512	122,756	143,512	185,057	232,029	327,263	164,533	794,084	100,460	118,175	2,537,614
Waters north of State:													
Fish:													
Tuna, albacore	----	----	----	----	----	----	----	----	----	4,258	----	----	4,258
Total pounds	----	----	----	----	----	----	----	----	----	4,258	----	----	4,258
Waters south of State:													
Fish:													
Barracuda, California	----	----	----	180	----	1,240	----	----	4,658	----	170	6,833	13,081
Bonito, Pacific	----	----	----	1,003	----	----	115	----	----	----	187	134	1,439
Flyingfish	----	----	----	----	----	----	384	----	----	----	----	----	384
Grouper	7,764	----	----	----	----	----	----	----	----	240	----	15,277	23,281
Halibut, California	----	651	3,691	----	288	----	2,550	1,533	2,794	----	----	----	11,507
Perch	----	----	----	115	----	----	----	----	----	----	----	----	115
Rockfish	----	----	2,117	1,423	495	----	230	----	170	670	161	3,765	9,031
Sculpin	----	----	----	----	----	4,090	19,092	12,481	----	----	----	----	35,663
Sea bass, giant	5,012	2,178	533	1,140	208	245	23	----	100	1,359	279	5,584	16,661
Seabass, white	264	2,798	2,860	8,046	1,915	162	18	----	2,083	4,387	6,947	9,171	38,651
Shark	----	1,047	1,881	1,365	158	----	423	----	----	2,154	7,105	272	14,405
Sheephead, California	----	----	30	----	22	----	122	207	147	----	24	----	552
Swordfish	----	----	----	----	----	----	876	26,403	----	----	----	----	27,279
Tuna, albacore	----	----	----	----	----	----	105,669	166,096	6,656	247,800	7,974	----	534,195
Tuna, bigeye	----	----	----	----	----	----	----	----	24,946	----	----	53,503	78,449
Tuna, bluefin	----	----	----	----	----	----	763,841	1,307,032	709,161	291	15,616	18,990	2,814,931
Tuna, skipjack	----	----	159,991	751,479	1,251,711	3,052,663	1,147,045	757,404	496,025	1,342,095	3,488,538	1,600,572	14,047,523
Tuna, yellowfin	----	546	5,489,718	9,114,964	12,030,330	4,711,318	5,709,093	2,815,777	142,432	120,154	501,651	265,664	40,901,647
Wahoo	----	----	----	----	----	120	----	----	----	----	----	----	120
Whitefish, ocean	----	----	----	----	----	----	62	----	20	----	----	----	82
Yellowtail, California	----	169	----	42	65	----	477	----	3,692	1,444	3,755	2,646	12,290
Total pounds	13,040	7,389	5,660,821	9,879,757	13,285,192	7,769,838	7,750,020	5,086,933	1,392,884	1,720,594	4,032,407	1,982,411	58,581,286
SHIPMENTS:*													
Fish:													
Tuna, albacore	----	206,198	----	303,931	233,874	133,796	77,243	2,638,130	2,685,238	----	----	227,639	6,506,049
Tuna, yellowfin	----	----	278,857	182,200	800,824	----	----	691,416	----	78,250	----	157,293	2,188,840
Total pounds	----	206,198	278,857	486,131	1,034,698	133,796	77,243	3,329,546	2,685,238	78,250	----	384,932	8,694,889
Grand total	**201,843**	**276,017**	**6,038,190**	**10,488,644**	**14,463,402**	**8,088,691**	**8,059,292**	**8,743,742**	**4,242,655**	**2,597,186**	**4,132,867**	**2,485,518**	**69,818,047**

* For origin of shipments refer to Table 6. Beginning in 1965 only tuna shipments are recorded.

TABLE 15

Value of Landings and Shipments of Commercial Fish Into California by Area, 1968

Species	Eureka	San Francisco*	Monterey	Santa Barbara	Los Angeles	San Diego	Total
LANDINGS:							
Fish:							
Anchovy	----	51,463	8,501,799	4,007,925	18,514,929	----	31,076,116
	----	$2,573	$83,818	$30,494	$167,591	----	$284,476
Barracuda, California	----	----	----	9,386	97,119	33,995	140,500
	----	----	----	$1,858	$23,013	$6,049	$30,920
Blacksmith	----	----	----	----	137,634	----	137,634
	----	----	----	----	$4,124	----	$4,124
Bonito, Pacific	48	809	9,678	254,770	14,609,914	46,710	14,921,929
	$5	$57	$637	$10,015	$606,880	$1,989	$619,583
Cabezon	66	910	12,736	6,333	----	61	20,106
	$4	$19	$511	$209	----	$9	$752
Carp	----	297,793	----	----	----	----	297,793
	----	$25,102	----	----	----	----	$25,102
Croaker, white	----	15,628	195,157	15,521	706,583	8,415	941,304
	----	$1,712	$12,887	$395	$42,772	$867	$58,633
Flounder	530,146	248,693	59,764	17,469	85	----	856,157
	$26,788	$16,725	$4,763	$1,381	$12	----	$49,669
Flounder, arrowtooth	10,400	3,000	----	----	----	----	13,400
	$520	$150	----	----	----	----	$670
Flyingfish	----	----	----	----	73,080	511	73,591
	----	----	----	----	$10,492	$121	$10,613
Grouper	----	----	----	----	207,632	23,281	230,913
	----	----	----	----	$47,812	$5,583	$53,395
Hake, Pacific	----	525	5,490	479	----	----	6,494
	----	$10	$152	$9	----	----	$171
Halfmoon	----	----	----	----	19,422	30,195	49,617
	----	----	----	----	$4,481	$6,053	$10,534
Halibut, California	150	191,003	79,340	231,718	130,680	38,763	671,654
	$40	$45,192	$20,029	$68,973	$38,903	$12,685	$185,822
Halibut, Pacific	127	----	----	----	----	----	127
	$33	----	----	----	----	----	$33
Hardhead	----	243,581	----	----	----	----	243,581
	----	$23,369	----	----	----	----	$23,369
Herring, Pacific	----	53,235	304,634	----	----	----	357,869
	----	$10,800	$28,777	----	----	----	$39,577
Hitch	----	1,495	----	----	----	----	1,495
	----	$54	----	----	----	----	$54
Lingcod	782,821	188,337	71,318	50,556	595	427	1,094,054
	$62,516	$14,858	$8,194	$4,776	$105	$37	$90,486
Mackerel, jack	245	30	960,612	4,251,015	50,455,700	80	55,667,682
	$12	$3	$40,711	$159,414	$1,922,327	$8	$2,122,475
Mackerel, Pacific	----	----	----	----	3,128,449	4,997	3,133,446
	----	----	----	----	$167,271	$486	$167,757
Opaleye	----	----	----	----	10,798	375	11,173
	----	----	----	----	$2,103	$61	$2,164
Perch	61,287	22,608	13,727	18,990	41,277	10,151	168,040
	$10,836	$6,142	$2,291	$4,627	$9,000	$1,949	$34,845
Pompano, Pacific	----	----	71,748	2,185	195,439	----	269,372
	----	----	$18,220	$431	$32,109	----	$50,760
Rockfish	2,904,119	584,131	2,394,655	2,618,000	656,547	286,944	9,444,396
	$161,007	$51,832	$162,221	$155,315	$95,794	$41,462	$667,631
Sablefish	1,750,684	137,280	1,329,969	905	617	----	3,219,455
	$150,381	$5,528	$73,260	$57	$49	----	$229,275
Salmon	4,064,343	2,198,806	572,605	116,142	35	----	6,951,931
	$2,187,714	$1,370,543	$379,941	$75,839	$19	----	$4,014,056
Sanddab	275,438	265,903	172,631	424	148	78	714,622
	$24,011	$22,133	$12,546	$41	$28	$20	$58,779
Sardine	----	----	1,280	19,980	100,821	2,007	124,088
	----	----	$317	$3,996	$10,529	$451	$15,293
Sculpin	----	----	----	187	7,684	117,304	125,175
	----	----	----	$37	$2,737	$31,836	$34,610
Sea bass, giant	----	----	66	978	136,648	20,729	158,421
	----	----	$23	$163	$24,821	$3,713	$28,720
Seabass, white	----	409	14,999	43,657	703,399	99,416	861,880
	----	$115	$4,491	$16,667	$205,352	$32,617	$259,242
Shark	1,683	59,689	60,620	161,128	86,107	130,720	499,947
	$105	$2,568	$2,250	$16,499	$11,113	$17,127	$49,662
Sheephead, California	----	----	----	881	4,946	6,923	12,750
	----	----	----	$59	$443	$731	$1,233
Skate	51,711	62,725	68,690	3,155	69	----	186,350
	$469	$785	$1,139	$232	$7	----	$2,632

TABLE 15—Continued

Value of Landings and Shipments of Commercial Fish Into California by Area, 1968

Species	Eureka	San Francisco*	Monterey	Santa Barbara	Los Angeles	San Diego	Total
Smelt	177,281	82,419	49,317	----	133,470	575	443,062
	$11,507	$8,855	$5,118	----	$5,881	$65	$31,426
Smelt, whitebait	232,117	5,944	----	----	----	----	238,061
	$19,692	$926	----	----	----	----	$20,618
Sole, Dover	8,191,524	255,692	56,615	31,690	----	----	8,535,521
	$557,315	$15,020	$3,278	$1,901	----	----	$577,514
Sole, English	3,358,803	1,697,246	439,844	315,300	245	----	5,811,438
	$298,040	$141,607	$36,504	$24,656	$24	----	$500,831
Sole, petrale	1,975,782	490,375	248,362	231,900	166	20	2,946,605
	$253,622	$68,665	$36,558	$30,169	$25	$5	$389,044
Sole, rex	1,519,939	204,955	124,277	81,412	----	----	1,930,583
	$129,492	$17,551	$9,248	$6,659	----	----	$162,950
Sole, sand	2,847	179,161	22,052	7,316	----	----	211,376
	$307	$21,375	$2,649	$879	----	----	$25,210
Sole, miscellaneous	600	6,463	11,893	7,886	746	2,026	29,614
	$50	$462	$1,186	$858	$91	$518	$3,165
Swordfish	----	----	----	37,582	116,948	44,868	199,398
	----	----	----	$24,743	$79,223	$29,963	$133,929
Tuna, albacore	3,441,113	963,260	1,421,311	2,131,415	5,703,788	1,416,272	15,077,159
	$645,445	$180,600	$266,528	$399,641	$1,212,505	$284,341	$2,989,060
Tuna, bigeye	----	----	----	----	31,109	78,449	109,558
	----	----	----	----	$4,859	$12,407	$17,266
Tuna, bluefin	----	----	----	----	10,050,936	2,885,339	12,936,275
	----	----	----	----	$1,528,647	$427,186	$1,955,833
Tuna, skipjack	----	----	----	354	45,176,235	14,058,052	59,234,641
	----	----	----	$47	$5,912,085	$1,858,288	$7,770,420
Tuna, yellowfin	----	----	----	----	112,123,459	40,903,050	153,026,509
	----	----	----	----	$17,444,740	$6,368,029	$23,812,769
Turbot	1,956	50,270	85	17,193	----	----	69,504
	$162	$2,476	$4	$1,041	----	----	$3,683
Wahoo	----	----	----	----	6,190	120	6,310
	----	----	----	----	$1,426	$18	$1,444
Whitefish, ocean	----	----	----	95	696	1,856	2,647
	----	----	----	$6	$58	$148	$212
Yellowtail, California	----	----	----	7	132,752	30,418	163,177
	----	----	----	$1	$15,090	$3,000	$18,091
Miscellaneous	12	349	943	12	255	98	1,669
	$4	$29	$57	$1	$49	$16	$156
Miscellaneous (animal food)	1,911,543	----	----	678,091	----	----	2,589,634
	$38,231	----	----	$13,562	----	----	$51,793
Crustacean:							
Crab, market	15,175,854	836,677	1,021	2,029	----	----	16,015,581
	$3,250,980	$283,157	$401	$838	----	----	$3,535,376
Crab, rock	815	----	194	109,031	234,585	7,032	351,657
	----	----	$9	$6,999	$29,777	$429	$37,214
Crab, spider	----	----	----	187	----	----	187
	----	----	----	$9	----	----	$9
Lobster, spiny	----	----	----	112,272	108,805	91,406	312,483
	----	----	----	$96,125	$104,435	$92,605	$293,165
Prawn, ridgeback	----	----	----	426	----	----	426
	----	----	----	$341	----	----	$341
Prawn, spot	----	----	7,239	----	----	----	7,239
	----	----	$6,515	----	----	----	$6,515
Shrimp, bay	----	10,465	----	----	----	----	10,465
	----	$2,491	----	----	----	----	$2,491
Shrimp, ocean	2,083,960	190,810	----	----	----	----	2,274,770
	$229,222	$20,999	----	----	----	----	$250,221
Mollusk:							
Abalone	----	15,191	----	2,155,133	1,563,540	740,978	4,474,842
	----	$4,184	----	$572,314	$372,314	$174,763	$1,123,575
Octopus	2,492	14,589	381	38	151	12	17,663
	$91	$614	$49	$2	$49	$3	$808
Oyster, eastern	----	16,166	----	----	----	----	16,166
	----	$47,928	----	----	----	----	$47,928
Oyster, giant Pacific	365,180	139,643	----	140,730	----	----	645,553
	$84,904	$32,467	----	$32,720	----	----	$150,091
Squid	----	190	14,578,091	2,660,395	7,693,532	505	24,932,713
	----	$9	$398,550	$37,318	$117,389	$15	$553,281
Miscellaneous mollusk	1,536	306	----	----	----	----	1,842
	$259	$1,702	----	----	----	----	$1,961
Total pounds	48,876,622	9,788,224	31,863,143	20,552,278	273,103,965	61,123,158	445,307,390
Total value	$8,143,764	$2,451,387	$1,623,832	$1,802,317	$30,258,554	$9,415,653	$53,695,507

TABLE 15—Continued

Value of Landings and Shipments of Commercial Fish Into California by Area, 1968

Species	Eureka	San Francisco*	Monterey	Santa Barbara	Los Angeles	San Diego	Total
SHIPMENTS:†							
Fish:							
Tuna, albacore	----	----	----	----	**54,516,523**	**6,506,049**	**61,022,572**
	----	----	----	----	$13,624,208	$1,623,876	$15,248,084
Tuna, bigeye	----	----	----	----	**152,390**	----	**152,390**
	----	----	----	----	$17,408	----	$17,408
Tuna, bluefin	----	----	----	----	**80,098**	----	**80,098**
	----	----	----	----	$11,895	----	$11,895
Tuna, skipjack	----	----	----	----	**1,439,186**	----	**1,439,186**
	----	----	----	----	$188,312	----	$188,312
Tuna, yellowfin	----	----	----	----	**57,023,101**	**2,188,840**	**59,211,941**
	----	----	----	----	$12,154,321	$470,746	$12,625,067
Total pounds	----	----	----	----	**113,211,298**	**8,694,889**	**121,906,187**
Total value	----	----	----	----	$25,996,144	$2,094,622	$28,090,766
GRAND TOTAL POUNDS	**48,876,622**	**9,788,224**	**31,863,143**	**20,552,278**	**386,315,263**	**69,818,047**	**567,213,577**
GRAND TOTAL VALUE	$8,143,764	$2,451,387	$1,623,832	$1,802,317	$56,254,698	$11,510,275	$81,786,273

* Includes Sacramento area landings.
† For origin of shipments refer to Table 6. Beginning in 1965 only tuna shipments are recorded.

TABLE 16

Value of Landings by Port, Eureka Area, 1968

	Value	Pounds
EUREKA		
Market crab	$1,293,000	6,035,833
Salmon	735,306	1,327,935
Albacore	277,851	1,481,330
Dover sole	134,780	1,981,019
Giant Pacific oyster	84,904	365,180
English sole	42,597	480,052
Petrale sole	39,233	305,635
Rex sole	34,716	407,489
Sablefish	28,657	333,617
Rockfish	24,427	458,670
Ocean shrimp	14,431	131,200
Lingcod	9,936	124,413
Sanddab	6,799	77,997
Perch	5,456	30,462
Flounder	5,276	104,407
All other species	6,668	103,633
Port totals	$2,744,037	13,748,872
Crescent City		
Market crab	$1,364,901	6,371,474
Salmon	538,914	1,070,743
Ocean shrimp	214,791	1,952,760
Albacore	175,417	935,215
English sole	93,410	1,052,699
Dover sole	68,969	1,013,724
Petrale sole	67,442	525,394
Rockfish	22,316	405,133
Rex sole	20,224	237,381
Lingcod	17,944	224,693
Sablefish	14,985	174,453
Flounder	11,062	218,923
Sanddab	5,250	60,226
All other species	5,216	106,373
Port totals	$2,620,841	14,349,191
Fort Bragg		
Salmon	$686,549	1,237,900
Market crab	256,709	1,198,340
Albacore	190,991	1,018,243
Dover sole	86,084	1,265,283
Sablefish	71,577	833,269
Rockfish	67,712	1,181,560
English sole	44,300	499,248
Petrale sole	43,563	339,364
Rex sole	21,904	257,102
Lingcod	21,318	266,946
Miscellaneous (animal food)	9,976	498,790
All other species	7,422	95,015
Port totals	$1,508,105	8,691,060
Fields Landing		
Dover sole	$267,482	3,931,498
Market crab	207,303	967,707
English sole	117,733	1,326,804
Petrale sole	103,384	805,389
Rex sole	52,648	617,967
Rockfish	46,551	858,739
Sablefish	35,162	409,345
Miscellaneous (animal food)	27,860	1,392,981
Salmon	18,091	32,214
Lingcod	13,318	166,769
Whitebait smelt	11,405	134,434
Flounder	10,326	204,356
Sanddab	10,132	116,227
Smelt	6,326	95,942
All other species	4,763	27,059
Port totals	$932,484	11,087,431

TABLE 16—Continued

Value of Landings by Port, Eureka Area, 1968

	Value	Pounds
Trinidad		
Market crab	$127,871	596,915
Salmon	65,457	136,979
All other species	290	1,544
Port totals	$193,618	735,438
Albion		
Salmon	$86,631	154,990
All other species	1,199	5,603
Port totals	$87,830	160,593
Point Arena		
Salmon	$56,766	103,582
All other species	83	455
Port totals	$56,849	104 037
EUREKA AREA TOTALS	**$8,143,764**	**48,876,622**

TABLE 17

Value of Landings by Port, San Francisco Area, 1968 *

	Value	Pounds
Bodega Bay		
Salmon	$597,989	971,563
Albacore	76,986	410,616
Market crab	62,509	184,701
English sole	36,394	436,208
Ocean shrimp	19,597	178,075
Rockfish	15,771	141,968
Petrale sole	14,436	103,099
Smelt	8,563	80,332
All other species	20,225	279,353
Port totals	$852,470	2,785,915
San Francisco		
Salmon	$167,243	265,340
Market crab	128,997	381,162
English sole	86,765	1,039,930
Petrale sole	45,675	326,190
Rockfish	30,883	380,545
California halibut	23,908	101,047
Sand sole	19,216	161,066
Sanddab	16,079	193,174
Flounder	10,963	163,010
Rex sole	10,087	117,795
Lingcod	8,541	108,264
Dover sole	8,040	136,874
Albacore	5,389	28,741
Sablefish	4,828	119,884
All other species	8,169	159,682
Port totals	$574,783	3,682,704
Point Reyes		
Salmon	$204,095	324,295
Market crab	35,287	104,265
Giant Pacific oyster	27,498	118,272
English sole	18,195	218,080
Petrale sole	8,554	61,086
All other species	24,122	289,894
Port totals	$317,751	1,115,892
Sausalito		
Salmon	$179,418	285,277
Albacore	63,119	336,657
Market crab	16,228	47,952
Pacific herring	6,553	32,300
All other species	3,232	58,180
Port totals	$268,550	760,366
Princeton		
Salmon	$154,036	243,861
Market crab	38,970	115,149
California halibut	18,511	78,235
All other species	6,853	57,592
Port totals	$218,370	494,837
Oakland		
Salmon	$61,476	98,514
Albacore	35,088	187,150
All other species	2,303	7,974
Port totals	$98,867	293,638
Tomales Bay		
Eastern oyster	$47,928	16,166
Giant Pacific oyster	4,861	20,906
All other species	9,693	51,226
Port totals	$62,482	88,298

TABLE 17—Continued
Value of Landings by Port, San Francisco Area, 1968 *

	Value	Pounds
Clear Lake		
Hardhead	$22,646	236,041
Carp	22,485	266,748
All other species	8	220
Port totals	$45,139	503,009
Berkeley		
Salmon	$6,049	9,573
All other species	629	2,380
Port totals	$6,678	11,953
All other ports		
All species	$6,297	51,612
Totals	$6,297	51,612
SAN FRANCISCO AREA TOTALS	**$2,451,387**	**9,788,224**

* Includes Sacramento area landings.

TABLE 18
Value of Landings by Port, Monterey Area, 1968

	Value	Pounds
Monterey		
Squid	$329,403	12,048,841
Rockfish	122,270	1,777,278
Salmon	114,136	172,030
Sablefish	66,088	1,199,766
Albacore	55,276	294,769
English sole	20,973	252,704
Petrale sole	20,146	136,866
White croaker	7,545	114,265
Spot prawn	6,515	7,239
Jack mackerel	5,198	122,645
Lingcod	4,995	43,473
California halibut	4,942	19,577
All other species	17,873	372,528
Port totals	$775,360	16,561,981
Moss Landing		
Salmon	$224,425	338,210
Albacore	210,929	1,124,822
Anchovy	82,187	8,336,379
Squid	69,147	2,529,250
Rockfish	39,647	613,840
Jack mackerel	35,239	831,500
Pacific herring	28,442	301,094
Petrale sole	16,412	111,496
English sole	15,531	187,140
Sanddab	8,695	119,641
Sablefish	7,172	130,203
Rex sole	5,892	79,175
All other species	25,439	298,295
Port totals	$769,157	15,001,045
Santa Cruz		
Salmon	$41,380	62,365
California halibut	13,019	51,572
Pacific pompano	12,756	50,231
All other species	12,160	135,949
Port totals	$79,315	300,117
MONTEREY AREA TOTALS	**$1,623,832**	**31,863,143**

TABLE 19

Value of Landings by Port, Santa Barbara Area, 1968

	Value	Pounds
Morro Bay		
Albacore	$300,070	1,600,372
Abalone	178,690	663,828
Rockfish	80,102	1,350,149
Giant Pacific oyster	32,720	140,730
Salmon	17,620	26,669
Petrale sole	15,196	116,808
Jack mackerel	10,482	279,520
California halibut	8,744	29,376
Lingcod	4,523	47,881
All other species	25,950	407,797
Port totals	$674,097	4,663,130
Santa Barbara		
Abalone	$292,211	1,109,032
Spiny lobster	79,111	92,400
Rockfish	68,981	1,179,559
California halibut	33,136	111,322
Swordfish	22,773	34,590
English sole	15,652	200,143
White seabass	10,733	28,114
Miscellaneous (animal food)	9,005	450,236
Petrale sole	8,783	67,513
Shark	7,910	76,890
Rock crab	6,588	102,623
All other species	9,317	97,000
Port totals	$564,200	3,549,422
Port Hueneme		
Jack mackerel	$148,932	3,971,495
Squid	37,318	2,660,395
Anchovy	30,494	4,007,925
California halibut	16,318	54,820
Abalone	13,129	50,947
Pacific bonito	8,578	218,233
Spiny lobster	8,377	9,784
All other species	4,822	39,237
Port totals	$267,968	11,012,836
Avila		
Albacore	$99,370	529,971
Abalone	72,709	269,905
Salmon	56,335	86,619
Shark	6,070	60,380
Petrale sole	5,745	44,158
Rockfish	5,119	76,746
English sole	4,506	57,624
All other species	10,847	76,019
Port totals	$260,701	1,201,422
Oxnard		
Abalone	$12,250	48,322
California halibut	5,319	17,870
Spiny lobster	4,939	5,769
All other species	2,025	18,404
Port totals	$24,533	90,365
All other ports		
All species	$10,818	35,103
Totals	$10,818	35,103
SANTA BARBARA AREA TOTALS	**$1,802,317**	**20,552,278**

TABLE 20

Value of Landings and Shipments by Port, Los Angeles Area, 1968

	Value	Pounds
Terminal Island		
Landings:		
Yellowfin tuna	$17,366,115	111,618,109
Skipjack tuna	5,909,222	45,154,355
Jack mackerel	1,648,072	43,257,270
Bluefin tuna	1,428,399	9,391,801
Albacore	1,181,322	5,557,100
Pacific bonito	393,499	9,473,036
Anchovy	153,571	16,966,150
Pacific mackerel	110,478	2,066,265
Squid	96,758	6,341,897
Sardine	6,228	59,637
All other species	9,637	124,199
Total landings	$28,303,301	250,009,319
Shipments:*		
Albacore	$13,619,210	54,496,523
Yellowfin tuna	12,154,321	57,023,101
Skipjack tuna	188,312	1,439,186
Bigeye tuna	17,408	152,390
Bluefin tuna	11,895	80,098
Total shipments	$25,991,146	113,191,298
Port totals	$54,294,447	363,200,617
San Pedro		
Landings:		
Abalone	$352,230	1,479,801
White seabass	202,035	692,040
Pacific bonito	174,936	4,211,378
Bluefin tuna	100,246	659,124
Rockfish	93,022	638,447
Jack mackerel	91,788	2,409,174
Yellowfin tuna	78,620	505,316
Pacific mackerel	48,507	907,218
Grouper	47,812	207,632
White croaker	42,213	698,562
Swordfish	38,587	56,962
Spiny lobster	38,402	40,010
California halibut	32,283	108,444
Pacific pompano	32,027	194,941
Albacore	25,166	118,382
Giant sea bass	24,643	135,673
California barracuda	22,574	95,267
Squid	20,631	1,352,135
California yellowtail	15,010	132,056
Anchovy	11,550	1,276,045
Rock crab	10,397	81,912
Flyingfish	10,171	70,845
Shark	9,804	75,965
Perch	5,983	27,481
Smelt	5,120	115,759
Sardine	4,301	41,184
All other species	13,254	93,148
Port totals	$1,551,312	16,424,901
Wilmington		
Landings:		
Jack mackerel	$182,308	4,785,077
Pacific bonito	36,926	888,950
Pacific mackerel	8,217	153,681
Abalone	7,880	31,243
All other species	3,802	198,823
Port totals	$239,133	6,057,774

TABLE 20—Continued

Value of Landings and Shipments by Port, Los Angeles Area, 1968

	Value	Pounds
Newport Beach		
Landings:		
Swordfish	$38,372	56,644
Spiny lobster	15,823	16,485
Abalone	8,335	37,763
Albacore	5,513	25,932
All other species	8,225	119,719
Port totals	$76,768	256,543
Long Beach		
Landings:		
Spiny lobster	$31,681	33,007
All other species	9,070	104,410
Port totals	$40,751	137,417
Redondo Beach		
Landings:		
Rock crab	$18,875	148,699
Spiny lobster	8,872	9,243
All other species	1,203	8,851
Port totals	$28,950	166,793
Santa Monica		
Landings:		
Spiny lobster	$6,345	6,610
All other species	5,028	28,025
Port totals	$11,373	34,635
All other ports		
Landings:		
All species	$6,966	16,583
Total landings	$6,966	16,583
Shipments:		
All species	$4,998	20,000
Total shipments	$4,998	20,000
Totals	$11,964	36,583
LOS ANGELES AREA TOTALS	**$56,254,698**	**386,315,263**

* Beginning in 1965 only tuna shipments are recorded.

TABLE 21

Value of Landings and Shipments by Port, San Diego Area, 1968

	Value	Pounds
San Diego		
Landings:		
Yellowfin tuna	$6,368,029	40,903,050
Skipjack tuna	1,858,288	14,058,052
Bluefin tuna	427,142	2,885,039
Albacore	283,206	1,410,619
Abalone	174,273	738,957
Spiny lobster	82,839	81,766
Rockfish	37,054	255,970
White seabass	32,184	98,097
Sculpin	31,693	116,775
Swordfish	29,749	44,547
Shark	15,485	118,234
Bigeye tuna	12,407	78,449
California halibut	12,025	36,746
Halfmoon	6,053	30,195
California barracuda	5,873	33,005
Grouper	5,583	23,281
All other species	13,268	130,628
Total landings	$9,395,151	61,043,410
Shipments:*		
Albacore	$1,623,876	6,506,049
Yellowfin tuna	470,746	2,188,840
Total shipments	$2,094,622	8,694,889
Port totals	$11,489,773	69,738,299
Oceanside		
Landings:		
All species	$14,424	73,717
Port totals	$14,424	73,717
Cardiff		
Landings:		
Spiny lobster	$5,122	5,056
All other species	11	42
Port totals	$5,133	5,098
All other ports		
Landings:		
All species	$945	933
Totals	$945	933
SAN DIEGO AREA TOTALS	**$11,510,275**	**69,818,047**

* Beginning in 1965 only tuna shipments are recorded.

TABLE 22

Statewide Commercial Partyboat Catch by Species
(Not including anchored barges)
1959–1968 *

Species	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968
Barracuda, California	1,195,585	755,408	391,884	335,507	483,699	303,070	443,304	892,697	470,480	372,246
Bass, kelp and sand	428,426	478,656	613,604	789,149	1,219,344	1,103,394	1,230,313	1,278,939	1,003,914	1,317,963
Bonito, Pacific	776,386	1,199,919	849,426	798,725	775,719	1,298,804	806,322	644,415	349,952	1,102,936
Cabezon	5,329	2,516	2,639	4,538	9,726	6,491	7,575	10,293	5,419	4,349
Halibut, California	25,365	48,310	108,011	118,966	125,669	141,465	118,213	88,726	63,582	54,663
Lingcod	31,206	28,232	23,466	25,399	27,513	25,263	33,260	44,676	43,559	42,449
Mackerel, jack	11,820	8,537	28,891	9,029	9,342	6,577	25,619	19,027	16,236	13,588
Mackerel, Pacific	88,952	79,370	113,988	116,738	146,560	101,219	151,896	205,090	108,366	78,933
Rockfish	1,177,979	1,015,673	898,641	956,438	962,659	966,801	1,347,430	1,688,718	1,894,057	2,102,859
Salmon	55,945	37,941	42,965	87,612	72,457	92,021	51,677	70,151	84,946	127,584
Sculpin	11,477	15,111	26,672	33,314	53,896	73,844	71,888	69,851	63,280	59,863
Seabass, white	10,593	15,697	14,082	14,564	19,800	14,901	9,775	3,972	3,385	4,138
Sheephead, California	17,146	11,541	15,210	13,488	18,443	26,822	41,651	52,967	42,676	33,075
Tuna, albacore	39	76,075	184,891	229,314	158,372	112,358	99,771	74,680	96,497	129,710
Tuna, bluefin	1,330	97	2,268	2,453	737	693	92	1,998	3,166	1,231
Whitefish, ocean	5,608	5,850	6,647	6,157	6,231	6,949	13,810	15,587	18,184	22,155
Yellowtail, California	457,350	254,969	42,367	21,826	45,705	39,104	18,367	80,163	31,392	58,049
All others	28,039	56,132	87,981	92,776	142,630	114,400	163,595	166,470	145,073	205,410
Total number of fish	**4,328,575**	**4,090,034**	**3,453,633**	**3,655,993**	**4,278,502**	**4,434,176**	**4,634,558**	**5,408,420**	**4,444,164**	**5,731,201**
Number of angler days†	557,154	516,255	495,805	----	----	----	----	----	----	----
Number of anglers	----	637,498	593,916	595,866	643,155	695,445	688,103	857,000	780,102	849,654

* See Fish Bulletin No. 121 for historical records 1936–1961.
† Not available after 1961.

TABLE 23

Inshore Bait Landings by Area
Pounds and Value
1968

Species	Sacramento	San Francisco and Monterey	Los Angeles	San Diego	Statewide
Clam					
Freshwater	406,996	----	----	----	406,996
	$41,749	----	----	----	$41,749
Jackknife	----	----	31,028	24,557	55,585
	----	----	$18,700	$13,822	$32,522
Purple	----	----	4,521	19,487	24,008
	----	----	$2,286	$8,626	$10,912
Unclassified	----	429	78	266	773
	----	$104	$22	$532	$658
Crab					
Sand	----	----	7,738	----	7,738
	----	----	$22,835	----	$22,835
Shore	----	1	5	----	6
	----	$1	$68	----	$69
Mudsucker, longjaw	----	----	282	----	282
	----	----	$268	----	$268
Mussel (bay and rock)	----	6	79,125	12,341	91,472
	----	$1	$9,484	$1,284	$10,769
Perch, shiner	188	----	----	----	188
	$303	----	----	----	$303
Sculpin, staghorn	1,468	361	----	----	1,829
	$5,075	$1,337	----	----	$6,412
Shrimp					
Bay	46,542	659	----	----	47,201
	$46,400	$746	----	----	$47,146
Ghost	----	----	3,717	4,031	7,748
	----	----	$15,839	$15,540	$31,379
Red	----	----	5,113	----	5,113
	----	----	$7,149	----	$7,149
TOTAL	455,194	1,456	131,607	60,682	648,939
	$93,527	$2,189	$76,651	$39,804	$212,171

TABLE 24

Recorded Catch of Live Bait for Saltwater Sportfishing 1964–1968

Species	Thousands of pounds*				
	1964	1965	1966	1967	1968
Anchovy	10,382	12,296	13,382	10,774	14,353
Herring, Pacific	18	----	----	----	----
Mackerel, jack	----	----	25	----	158
Sardine, adult	283	66	54	1	57
Sardine, juvenile	1	2	T	T	----
Miscellaneous†	26	82	84	22	80
Total pounds	10,710	12,446	13,545	10,797	14,648
Number of vessels‡	22	24	18	16	19

* Weights are estimated from voluntary records. They should be regarded as minimal because some fishermen do not supply catch information.
T Less than 500 pounds.
† Consists primarily of queenfish and white croaker.
‡ The number of live bait fishing vessels for which landings were reported. These numbers differ slightly from those in previous catch bulletins, since the earlier landing records, as submitted, sometimes included the catch of more than one boat.

APPENDIX A

TABLE I

California Commercial Troll Salmon Landings by Port-Area, Month and Species, in Pounds [1] and Numbers—1968

	April		May		June		July		August		September		Season	
	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers
Crescent City														
King	1,142	140	81,809	9,599	51,601	8,366	99,988	8,742	33,369	2,578	539	46	268,448	29,471
Silver	----	----	20,872	4,522	180,019	31,082	440,142	68,372	159,649	24,189	1,474	189	802,156	128,354
Pink	----	----	61	15	78	16	----	----	----	----	----	----	139	31
Eureka														
King	51,722	7,212	484,623	61,163	256,773	32,417	114,535	8,386	58,127	6,433	964	69	966,744	115,680
Silver	1,190	264	72,701	15,191	192,747	32,512	224,806	34,803	32,505	4,586	6,368	708	530,317	88,064
Pink	----	----	42	17	25	8	----	----	----	----	----	----	67	25
Fort Bragg														
King	8,833	1,172	36,412	4,322	250,047	27,357	397,347	37,706	224,668	23,461	73,947	6,632	991,254	100,650
Silver	45	10	46,640	9,328	125,293	18,158	219,588	32,641	104,443	12,488	9,209	1,162	505,218	73,787
Pink	----	----	----	----	----	----	----	----	----	----	----	----	----	----
San Francisco														
King	128,717	12,870	282,504	31,925	530,608	47,886	472,408	47,268	269,147	24,272	42,529	3,732	1,725,913	167,953
Silver	1,219	279	24,339	4,636	145,617	25,805	244,508	29,940	47,748	6,561	7,854	924	471,285	68,145
Pink	----	----	----	----	1,166	389	442	74	----	----	----	----	1,608	463
Monterey														
King	123,335	13,126	82,340	7,734	131,603	10,356	131,610	10,510	113,626	9,448	77,615	7,081	660,129	58,255
Silver	247	54	6,522	1,279	9,969	1,452	5,250	591	6,378	626	287	34	28,653	4,036
Pink	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Statewide														
King	313,749	34,520	967,688	114,743	1,220,632	126,382	1,215,888	112,612	698,937	66,192	195,594	17,560	4,612,488	472,009
Silver	2,701	607	171,074	34,956	653,645	109,009	1,134,294	166,347	350,723	48,450	25,192	3,017	2,337,629	362,386
Pink	----	----	103	32	1,269	413	442	74	----	----	----	----	1,814	519

[1] Dressed head on.

APPENDIX A

TABLE II

California Ocean Recreational Salmon Landings and Success [1] by Fishery, Port, Month and Species, in Numbers of Fish—1968

	February			March			April			May			June			July		
	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day
Crescent City																		
Partyboat	0	0	--	0	0	--	0	0	--	0	0	--	2	6	0.80	27	421	1.24
Skiff	0	0	--	0	0	--	0	0	--	0	0	--	7	37	0.26	161	1,733	0.72
Eureka																		
Partyboat	0	0	--	0	0	--	0	0	--	34	33	[a]	75	79	0.33	203	1,068	0.61
Skiff	0	0	--	0	0	--	0	0	[a]	0	0	--	174	97	0.14	1,212	8,364	0.83
Fort Bragg																		
Partyboat	0	0	--	2	0	[a]	2	0	[a]	0	316	2.14	100	377	0.64	543	1,268	0.66
Skiff	0	0	--	0	0	--	0	0	--	19	127	0.45	107	202	0.29	737	3,870	0.72
San Francisco																		
Partyboat	6,402	0	1.48	7,698	0	1.24	2,966	527	0.49	3,715	2,556	1.29	8,428	1,614	1.59	16,108	1,349	1.81
Skiff	241	0	0.95	1,224	0	0.76	471	5	0.56	975	180	1.45	594	447	0.52	2,464	1,056	1.19
Monterey																		
Partyboat	155	0	0.17	298	0	1.66	1,478	123	0.78	1,084	980	0.66	733	48	1.03	690	38	0.93
Skiff	725	0	0.77	2,917	0	1.30	2,316	47	0.67	1,834	713	0.51	1,798	144	0.53	2,251	131	0.70
Statewide																		
Partyboat	6,557	0	1.27	7,998	0	1.25	4,446	650	0.55	4,833	3,885	1.07	9,338	2,124	1.38	17,571	4,144	1.39
Skiff	966	0	0.81	4,141	0	1.07	2,787	52	0.65	2,828	1,020	0.63	2,680	927	0.41	6,825	15,154	0.82

TABLE II—Continued

California Ocean Recreational Salmon Landings and Success [1] by Fishery, Port, Month and Species, in Numbers of Fish—1968

	August			September			October			November			December			Season		
	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day	King	Silver	Fish /Day
Crescent City																		
Partyboat	34	229	0.77	0	0	--	0	0	--	0	0	--	0	0	--	63	656	0.98
Skiff	149	641	0.43	24	71	0.31	0	0	--	0	0	--	0	0	--	341	2,482	0.60
Eureka																		
Partyboat	101	678	0.54	9	89	0.35	0	0	--	0	0	--	0	0	--	422	1,947	0.53
Skiff	491	4,105	0.68	16	341	0.31	0	0	--	0	0	--	0	0	--	1,893	12,907	0.70
Fort Bragg																		
Partyboat	434	880	0.47	49	76	0.21	11	16	[a]	0	0	--	0	0	--	1,141	2,933	0.58
Skiff	505	1,582	0.44	114	1,269	0.57	0	0	--	0	0	--	0	0	--	1,482	7,050	0.57
San Francisco																		
Partyboat	28,112	1,226	2.28	19,684	2	2.15	7,526	0	1.26	6,199	0	1.86	1	0	[a]	106,839	7,274	1.55
Skiff	6,741	956	1.10	3,144	186	1.15	834	17	0.53	280	0	1.91	0	0	--	16,968	2,847	1.29
Monterey																		
Partyboat	295	0	0.83	121	1	[a]	136	0	[a]	129	0	[a]	0	0	--	5,119	1 190	0.89
Skiff	2,646	59	0.57	2,689	19	0.53	1,494	0	0.51	1,306	0	0.78	0	0	--	19,976	1,113	0.69
Statewide																		
Partyboat	28,976	3,013	1.80	19,863	168	1.98	7,673	16	1.26	6,328	0	1.86	1	0	--	113,584	14,000	1.43
Skiff	10,532	7,343	0.71	5,987	1,886	0.66	2,328	17	0.52	1,586	0	0.87	0	0	--	40,660	26,399	0.70

[1] Salmon per angler-day, species combined. [a] No sampling.

HISTORICAL REVIEW 1916–1968

From time to time it is desirable to present a historical review of the California commercial fish catch. The first review was published in 1937 in Fish Bulletin 49, and presented the catch for the years 1916 through 1935. A second review appeared in 1949, in Fish Bulletin 74, which gave figures for the years 1916 through 1947. This third historical review presents the catch record for the years 1916 through 1968, thereby giving the entire statistical history of the fisheries of California since the beginning of its recorded history.

The purposes of this type of review are to present the published record for all past years and to provide ready access to the statistics which show the complete fisheries picture and the long-period trends. In the past, such a record has proved of great value to fisheries biologists, administrators, wildlife conservation officers, educators, and people in the fishing industry.

Prior to 1960, the yearly published catch statistics were not considered final, and late landing data were added to our source data files as they were received. In addition, our files were corrected if occasional errors were found in the published record. As a result, the landing figure for a particular species in a year depended on the source of the data—the original catch bulletin, a slightly later tabulation of our source records, a later historical review, or finally, a figure obtained from our current tabulations. The practice of updating or correcting the published record was abolished with the publication of the 1960 catch figures; data published for 1960 and years since then will never be changed.

In the course of this review all the catch figures were reexamined. Our present records were compared to the original publication and subsequent historical reviews. All differences were carefully examined and checked against notations in the source files. Almost all of the differences were documented through this procedure, although a few could not be and had to be considered as human errors. The figures in this historical review are now in balance with our source data files, and represent a final determination of the actual landings. No further changes in the basic records or the figures published in this review will be allowed.

Our records of landings between 1916 and 1947 include some fish that were actually landed outside the State and later shipped to California dealers. The 1949 historical review (Fish Bulletin 74) attempted to separate landings and shipments for some species. The present review demonstrated, however, that this separation was very subjective for species other than tuna. As a consequence, only tuna shipments and the very small portion of other species that could be definitely identified as shipments have been separated from the total record for the 1916–1947 period (Table 1).

From 1948 through 1964, landings and shipments were separated in our files and publications; the record of shipments, however, was

acknowledged as being quite incomplete for species other than tuna. Starting in 1965, only shipment data involving the tunas have been collected and published.

Table 1 summarizes our information on statewide landings and shipments for the period 1916 through 1968. Tables 2 through 20 present the significant aspects of the historical record. The species shown are the more important ones in the landings; species nomenclature follows that used with the 1968 marine fish catch statistics presented as the first part of this Fish Bulletin.

Separate summaries are given for landings caught north or south of the state boundaries, or for shipments, when these aspects of a fishery are particularly noteworthy. However, origin information is not completely dependable prior to 1931 when a formal origin of catch was added to the statistical system. Other types of summaries are used where some special feature is of historical significance.

The final table shows landings of animal food from 1961 through 1968. Prior to 1961, landings of mixed fish to be ground for animal food were reported haphazardly as a species making up a good part of that particular load. With the rapid growth of this industry between 1953 and 1960 this situation became intolerable and produced major inaccuracies in the records. As a consequence, a new system where the dealer records the delivery as animal food and our biologists sample the catch to determine its species composition was inaugurated in 1961. Table 21 summarizes the landings reported as animal food; preliminary estimates of the catch composition were presented with the original publication of each year's data. Final detailed catch compositions of the animal food landings are compiled and published separately; Nitsos and Reed (1965) presented these data for 1961 and 1962.

Landings during the period covered by this review exhibited an almost steady rise from 1916 to 1936 when a peak of 1.76 billion pounds of fish was landed. Sardines dominated the landings during the 1930's and 1940's, but after the failure of this fishery in the early 1950's the tunas became dominant. Since 1958 the total landings have exhibited a slow but almost steady decline.

The origin of the landings has also changed during the past 20 years. In 1947 landings from California waters amounted to 69% of the total California landings, while landings from south of the State totaled 30%. In 1968 landings from California waters made up only 49% of the total. Tuna shipments have become very important to the overall operation of the California fishing industry amounting to 122 million pounds in 1968, compared to California landings of 445 million pounds.

The tables which follow represent the work of many individuals during the past 10 years. The original instigation for this historical review and the direction of its progress came from Edward C. Greenhood. The late Annine Phillips Stevens planned and supervised much of the actual work. The accurate interpretation of original records and updating and compiling the tables, a long and arduous task, was carried out by Ellen L. Gramm, Dorothy K. Bailey, Jeanne P. Cowger, and the entire staff of the Biostatistical section. The many persons

who served in the information unit during this time deserve special credit for their efforts.

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Nitsos, R. J., and Paul H. Reed. 1965. The Animal Food Fishery in California, 1961–1962. Calif Fish and Game, 51(1) : 16–27.

TABLE 1

TOTAL YEARLY LANDINGS AND SHIPMENTS IN POUNDS

Year	California landings*	Shipments other than tuna†	Total landings and shipments other than tuna	Tuna shipments‡	Grand total
1916	95,002,695	----	95,002,695	----	95,002,695
1917	209,876,670	----	209,876,670	----	209,876,670
1918	261,134,265	----	261,134,265	----	261,134,265
1919	266,270,133	107	266,270,240	----	266,270,240
1920	222,003,425	951	222,004,376	----	222,004,376
1921	135,346,435	1,391	135,347,826	----	135,347,826
1922	182,343,333	----	182,343 333	----	182,343,333
1923	253,874,581	----	253,874,581	----	253,874,581
1924	340,445,919	----	340,445,919	----	340,445,919
1925	437,502,232	----	437,502,232	----	437,502,232
1926	394,964,393	----	394,964,393	----	394,964,393
1927	487,088,551	----	487,088,551	77,592	487,166.143
1928	578,887,037	857,306	579,744,343	3,782,408	583,526,751
1929	850,953,251	----	850,953,251	5,900,804	856,854,055
1930	695,147,535	32,105	695,179,640	7,009,155	702,188,795
1931	495,448,900	----	495,448,900	6,940,975	502,389,875
1932	552,617,747	----	552,617,747	3,521,316	556,139,063
1933	817,715,982	----	817,715,982	4.089,034	821,805,016
1934	1,384,827,500	----	1,384,827,500	5,970,654	1,390,798,154
1935	1,442,032,007	----	1,442,032,007	5,984,564	1,448,016,571
1936	1,760,370,876	----	1,760,370.876	4,529,014	1,764,899,890
1937	1,351,256,911	----	1,351,256,911	11,726,806	1,362,983,717
1938	1,300,257,401	----	1,300,257,401	10,338,267	1,310,595,668
1939	1,479,045,931	----	1,479,045,931	7,488,975	1,486,534,906
1940	1,293,981,291	----	1,293,981,291	3,536,372	1,297,517,663
1941	1,527,760,007	----	1,527,760,007	1,132,184	1,528,892,191
1942	1,172,943,617	----	1,172,943,617	470,506	1,173,414,123
1943	1,234,049,119	----	1,234,049,119	----	1,234,049,119
1944	1,456,919,970	----	1,456,919,970	2,535,547	1,459,455,517
1945	1,216,391,831	----	1,216,391,831	108,758	1,216,500,589
1946	919,822,188	----	919,822,188	----	919,822,188
1947	795,172,919	----	795,172,919	326,160	795,499,079
1948	899,070,526	73,467	899,143,993	1,322,926	900,466,919
1949	1,132,620,348	1,293,855	1,133,914,203	1,424,487	1,135,338,690
1950	1,344,358,573	6,399,233	1,350,757,806	15,918,589	1,366,676,395
1951	865,749,226	4,638,919	870,388,145	33,726,242	904,114,387
1952	655,838,075	5,192,573	661,030.648	33,965.725	694,996,373
1953	547,802,957	8,040,854	555,843,811	63,075,605	618,919,416
1954	625,835,447	1,677,816	627,513,263	85,897,121	713,410,384
1955	603,117,051	2,735,682	605,852,733	104,860,721	710,713,454
1956	678,552,376	2,398,474	680,950,850	91,600,457	772,551,307
1957	628,003,175	3,858,296	631,861,471	106,688,913	738,550,384
1958	676,170,923	3,071,482	679,242,405	153,676,658	832,919,063
1959	529,242,200	1,321,722	530,563,922	182,859,114	713,423,036
1960	543,402,951	1,535,272	544,938,223	149,724,849	694,663,072
1961	599,263,509	2,164,041	601,427,550	123,825,921	725,253,471
1962	521,439,230	1,077,215	522,516,445	140,590,162	663,106,607
1963	509,718,393	744,927	510,463,320	82,435,547	592,898,867
1964	493,140,709	1,250,354	494,391,063	96,739,561	591,130,624
1965	453,268,232	----	453,268,232	91,211,669	544,479,901
1966	458,440,080	----	458,440,080	133.093.337	591,533,417
1967	503,893,182	----	503.893,182	85,134,479	589,027,661
1968	445,307,390	----	445,307,390	121,906,187	567,213,577

* California landings include some shipments of species other than tuna for the period 1916 through 1947.
† Shipments other than tuna are incomplete prior to 1948, minimal from 1948 through 1964, and unavailable from 1965 through 1968.
‡ Tuna shipments do not balance to figures given in the tuna tables because shipments of bigeye and unclassified tuna are included here.

TABLE 2

YEARLY LANDINGS AND SHIPMENTS IN POUNDS

Albacore tuna

Year	California waters	North of state	South of state	Total landings	Shipments	Total pounds
1916	22,899,309	----	----	22,899,309	----	22,899,309
1917	30,556,242	----	----	30,556,242	----	30,556,242
1918	7,263,895	----	1,527	7,265,422	----	7,265,422
1919	13,553,025	----	77,874	13,630,899	----	13,630,899
1920	18,876,647	----	----	18,876,647	----	18,876,647
1921	15,274,528	----	2,199	15,276,727	----	15,276,727
1922	13,231,823	----	----	13,231,823	----	13,231,823
1923	12,488,199	----	26,634	12,514,833	----	12,514,833
1924	17,280,346	----	415,016	17,695,362	----	17,695,362
1925	21,684,942	----	521,981	22,206,923	----	22,206,923
1926	2,469,861	----	60	2,469,921	----	2,469,921
1927	4,455,372	----	123,995	4,579,367	77,592	4,656,959
1928	283,321	----	----	283,321	3,782,408	4,065,729
1929	269,056	----	45	269,101	5,841,229	6,110,330
1930	283,117	----	----	283,117	7,005,568	7,288,685
1931	37,322	----	----	37,322	6,939,079	6,976,401
1932	619,694	----	----	619,694	2,467,521	3,087,215
1933	487	----	----	487	2,793,965	2,794,452
1934	119,829	----	----	119,829	4,167,467	4,287,296
1935	2,386,249	----	61,279	2,447,528	3,231,265	5,678,793
1936	945,595	----	----	945,595	1,510,409	2,456,004
1937	2,020,016	----	----	2,020,016	2,723,693	4,743,709
1938	4,789,880	1,995,101	29,919	6,814,900	6,759,735	13,574,635
1939	8,264,109	1,732,066	4,187	10,000,362	6,422,872	16,423,234
1940	2,387,254	1,552,504	880	3,940,638	3,137,696	7,078,334
1941	3,016,065	325,144	----	3,341,209	973,299	4,314,508
1942	7,998,144	----	2,623,216	10,621,360	470,506	11,091,866
1943	11,886,148	----	9,498,716	21,384,864	----	21,384,864
1944	8,679,273	----	9,774,659	18,453,932	2,535,547	20,989,479
1945	8,777,991	232,850	12,214,180	21,225,021	108,758	21,333,779
1946	9,116,647	2,434	8,958,818	18,077,899	----	18,077,899
1947	7,395,765	13,867	5,762,119	13,171,751	255,530	13,427,281
1948	10,499,390	55,167	25,901,589	36,456,146	1,153,643	37,609,789
1949	20,417,078	48,030	23,541,172	44,006,280	284,040	44,290,320
1950	38,139,296	30,396	23,575,512	61,745,204	4,378,420	66,123,624
1951	13,284,606	9,150	17,621,586	30,915,342	17,520,891	48,436,233
1952	23,103,074	3,389	26,697,061	49,803,524	22,525,248	72,328,772
1953	13,297,627	47,468	20,490,810	33,835,905	46,186,816	80,022,721
1954	14,289,095	----	11,818,195	26,107,290	38,466,383	64,573,673
1955	9,312,029	----	19,690,269	29,002,298	44,844,675	73,846,973
1956	15,874,652	115,985	21,064,574	37,055,211	20,322,775	57,377,986
1957	22,613,429	----	20,911,816	43,525,245	39,564,027	83,089,272
1958	25,387,036	1,075,988	724,753	27,187,777	27,485,321	54,673,098
1959	32,522,331	218,133	----	32,740,464	29,741,982	62,482,446
1960	32,056,980	69,104	2,986,543	35,112,627	36,339,548	71,452,175
1961	20,594,360	143,709	8,385,175	29,123,244	30,291,007	59,414,251
1962	32,046,366	----	4,576,009	36,622,375	36,731,754	73,354,129
1963	41,925,739	----	6,933,839	48,859,578	16,945,225	65,804,803
1964	33,867,847	----	8,683,164	42,551,011	32,169,953	74,720,964
1965	19,850,865	230,603	3,136,516	23,217,984	44,807,150	68,025,134
1966	16,141,399	672,854	1,374,959	18,189,212	55,719,626	73,908,838
1967	15,184,473	2,387,979	285,471	17,857,923	53,889,762	71,747,685
1968	11,617,055	2,779,875	680,229	15,077,159	61,022,572	76,099,731

TABLE 3
YEARLY LANDINGS AND SHIPMENTS IN POUNDS
Bluefin tuna

Year	California waters	North of state	South of state	Total landings	Shipments	Total pounds
1919	14,990,860	----	----	14,990,860	----	14,990,860
1920	10,530,272	----	----	10,530,272	----	10,530,272
1921	1,971,813	----	----	1,971,813	----	1,971,813
1922	2,811,283	----	----	2,811,283	----	2,811,283
1923	3,218,090	----	----	3,218,090	----	3,218,090
1924	3,241,110	----	----	3,241,110	----	3,241,110
1925	3,803,677	----	----	3,803,677	----	3,803,677
1926	6,526,533	----	----	6,526,533	----	6,526,533
1927	4,898,386	----	79	4,898,465	----	4,898,465
1928	13,700,870	----	----	13,700,870	----	13,700,870
1929	7,476,370	----	50,487	7,526,857	----	7,526,857
1930	15,598,892	----	6,322,390	21,921,282	----	21,921,282
1931	2,356,775	----	1,177,255	3,534,030	----	3,534,030
1932	460,044	----	611,162	1,071,206	1,053,795	2,125,001
1933	324,216	----	236,276	560,492	889,336	1,449,828
1934	18,291,721	----	66,107	18,357,828	----	18,357,828
1935	18,495,813	----	6,677,270	25,173,083	146,531	25,319,614
1936	13,808,578	----	5,116,305	18,924,883	745,052	19,669,935
1937	10,822,071	----	1,871,851	12,693,922	524,062	13,217,984
1938	16,512,262	----	1,215,769	17,728,031	4,328	17,732,359
1939	9,318,934	----	2,516,737	11,835,671	44	11,835,715
1940	18,849,968	----	1,120,300	19,970,268	----	19,970,268
1941	8,848,147	----	670,865	9,519,012	----	9,519,012
1942	10,331,506	----	2,513,058	12,844,564	----	12,844,564
1943	7,663,887	----	2,514,881	10,178,768	----	10,178,768
1944	16,083,584	----	4,259,966	20,343,550	----	20,343,550
1945	14,100,476	----	6,493,833	20,594,309	----	20,594,309
1946	15,518,212	----	6,513,590	22,031,802	----	22,031,802
1947	14,755,661	----	6,082,012	20,837,673	----	20,837,673
1948	1,693,760	----	4,835,047	6,528,807	168,180	6,696,987
1949	2,266,236	----	2,123,235	4,389,471	----	4,389,371
1950	9,339	----	2,729,624	2,738,963	107,878	2,846,841
1951	837,209	----	3,025,209	3,862,418	2,112	3,864,530
1952	907,215	----	3,669,470	4,576,685	----	4,576,685
1953	3,903,642	----	5,868,973	9,772,615	62,447	9,835,062
1954	5,647,572	----	15,377,248	21,024,820	771,147	21,795,967
1955	2,477,735	----	11,131,442	13,609,177	343,346	13,952,523
1956	2,612,046	----	10,013,922	12,625,968	162,875	12,788,843
1957	10,462,564	----	9,851,982	20,314,546	323,024	20,637,570
1958	15,609,801	----	15,109,431	30,719,232	757,976	31,477,208
1959	13,073,729	----	2,169,236	15,242,965	554,738	15,797,703
1960	4,339,031	----	7,613,480	11,952,511	1,463,900	13,416,411
1961	13,762,432	----	7,120,218	20,882,650	1,272,540	22,155,190
1962	17,039,651	----	14,160,300	31,199,951	1,919,778	33,119,729
1963	7,130,960	----	23,222,449	30,353,409	2,348,392	32,701,801
1964	4,655,330	----	18,515,928	23,171,258	3,660,681	26,831,939
1965	2,274,674	----	13,653,486	15,928,160	806,346	16,734,506
1966	2,202,585	----	32,617,821	34,820,406	3,118,804	37,939,210
1967	1,791,634	47,532	11,896,429	13,735,595	----	13,735,595
1968	3,737,291	1,125	9,197,859	12,936,275	80,098	13,016,373

TABLE 4
YEARLY LANDINGS AND SHIPMENTS IN POUNDS
Skipjack tuna

Year	California waters	South of state	Total landings	Shipments	Total pounds
1918	3,022,964	--	3,022,964	----	3,022,964
1919	6,880,312	12,115	6,892,427	----	6,892,427
1920	7,942,188	15,089	7,957,277	----	7,957,277
1921	1,134,853	140	1,134,993	----	1,134,993
1922	10,104,563	1,753,270	11,857,833	----	11,857,833
1923	4,579,077	6,883,445	11,462,522	----	11,462,522
1924	1,349,513	2,424,545	3,774,058	----	3,774,058
1925	8,755,478	5,466,975	14,222,453	----	14,222,453
1926	14,217,018	6,734,330	20,951,348	----	20,951,348
1927	5,802,598	28,003,362	33,805,960	----	33,805,960
1928	4,394,938	11,551,972	15,946,910	----	15,946,910
1929	8,032,077	18,974,936	27,007,013	59,575	27,066,588
1930	3,015,275	17,470,312	20,485,587	----	20,485,587
1931	11,965,616	4,541,145	16,506,761	----	16,506,761
1932	375,042	21,261,535	21,636,577	----	21,636,577
1933	10	16,687,298	16,687,308	405,733	17,093,041
1934	----	14,830,194	14,830,194	1,579,245	16,409,439
1935	1,907,916	15,289,270	17,197,186	2,606,768	19,803,954
1936	8,456,751	18,549,354	27,006,105	2,264,925	29,271,030
1937	1,884,148	45,219,944	47,104,092	7,594,903	54,698,995
1938	2,816	22,650,815	22,653,631	3,499,343	26,152,974
1939	2,718,641	27,402,250	30,120,891	1,066,059	31,186,950
1940	2,985,111	53,665,044	56,650,155	260,367	56,910,522
1941	4,214,373	21,371,095	25,585,468	121,596	25,707,064
1942	217,838	38,517,390	38,735,228	----	38,735,228
1943	17,904	28,875,880	28,893,784	----	28,893,784
1944	43,676	29,993,560	30,037,236	----	30,037,236
1945	93,078	33,254,818	33,347,896	----	33,347,896
1946	1,747,060	39,340,934	41,087,994	----	41,087,994
1947	893,046	51,567,122	52,460,168	----	52,460,168
1948	319,194	58,451,409	58,770,603	1,103	58,771,706
1949	26,677	78,495,241	78,521,918	52,739	78,574,657
1950	12,421	124,766,998	124,779,419	3,261,659	128,041,078
1951	590	115,886,258	115,886,848	2,750,824	118,637,672
1952	534	84,528,763	84,529,297	4,362,370	88,891,667
1953	1,307	122,304,876	122,306,183	8,347,736	130,653,919
1954	14,399	153,741,791	153,756,190	15,707,756	169,463,946
1955	1,246	101,889,720	101,890,966	18,634,023	120,524,989
1956	875	120,152,347	120,153,222	15,842,212	135,995,434
1957	353,455	90,194,258	90,547,713	20,888,590	111,436,303
1958	2,488,907	120,278,637	122,767,544	25,390,712	148,158,256
1959	1,365,207	97,100,450	98,465,657	47,728,534	146,194,191
1960	24,199	46,279,495	46,303,694	28,494,941	74,798,635
1961	578	65,402,282	65,402,860	21,344,772	86,747,632
1962	----	92,721,036	92,721,036	6,338,433	99,059,469
1963	2,224,116	94,395,828	96,619,944	9,664,889	106,284,833
1964	3,988	66,054,966	66,058,954	6,495,326	72,554,280
1965	40	84,241,655	84,241,695	5,677,518	89,919,213
1966	173,781	50,915,480	51,089,261	14,136,271	65,225,532
1967	116,902	110,839,399	110,956,301	4,002,499	114,958,800
1968	410,713	58,823,928	59,234,641	1,439,186	60,673,827

TABLE 5
YEARLY LANDINGS AND SHIPMENTS IN POUNDS
Yellowfin tuna

Year	California waters	South of state	Total landings	Shipments	Total pounds
1919	348,081	----	348,081	----	348,081
1920	1,477,905	487,119	1,965,024	----	1,965,024
1921	1,200,600	96,851	1,297,451	----	1,297,451
1922	1,205,023	6,200,256	7,405,279	----	7,405,279
1923	428,896	10,408,029	10,836,925	----	10,836,925
1924	680,759	2,382,639	3,063,398	----	3,063,398
1925	2,963,620	10,274,278	13,237,898	----	13,237,898
1926	2,695,502	9,869,484	12,564,986	----	12,564,986
1927	595,247	25,338,719	25,933,966	----	25,933,966
1928	84,626	32,168,580	32,253,206	----	32,253,206
1929	199,444	37,245,480	37,444,924	----	37,444,924
1930	35,553	56,618,628	56,654,181	3,587	56,657,768
1931	154,024	36,425,456	36,579,480	1,896	36,581,376
1932	165,323	36,758,087	36,923,410	----	36,923,410
1933	6,867	51,068,763	51,075,630	----	51,075,630
1934	19,514	60,893,646	60,913,160	223,942	61,137,102
1935	529,001	71,765,126	72,294,127	----	72,294,127
1936	767,231	77,585,413	78,352,644	8,628	78,361,272
1937	187,732	91,334,726	91,522,458	884,148	92,406,606
1938	10,566	78,277,578	78,288,144	74,861	78,363,005
1939	457,405	109,960,396	110,417,801	----	110,417,801
1940	237,527	113,522,373	113,759,900	138,309	113,898,209
1941	1,799	76,662,732	76,664,531	37,289	76,701,820
1942	1,315	41,465,299	41,466,614	----	41,466,614
1943	2,058	49,259,270	49,261,328	----	49,261,328
1944	45,373	63,098,518	63,143,891	----	63,143,891
1945	4,959	87,326,481	87,331,440	----	87,331,440
1946	32,653	127,214,022	127,246,675	----	127,246,675
1947	3,234	150,385,520	150,388,754	70,630	150,459,384
1948	593	191,723,388	191,723,981	----	191,723,981
1949	9,884	184,514,502	184,524,386	1,087,708	185,612,094
1950	1,461	182,314,373	182,315,834	8,130,632	190,446,466
1951	63	160,246,175	160,246,238	13,422,415	173,668,653
1952	----	178,439,583	178,439,583	7,078,107	185,517,690
1953	102	132,086,244	132,086,346	8,458,606	140,544,952
1954	----	119,401,795	119,401,795	29,701,898	149,103,693
1955	----	122,291,864	122,291,864	40,526,143	162,818,007
1956	120	149,280,874	149,280,994	54,604,513	203,885,507
1957	70,853	136,884,984	136,955,837	45,085,798	182,041,635
1958	417,710	123,001,684	123,419,394	94,655,755	218,075,149
1959	81,676	108,288,171	108,369,847	102,622,211	210,992,058
1960	10,482	189,296,372	189,306,854	83,341,244	272,648,098
1961	----	191,854,056	191,854,056	70,456,206	262,310,262
1962	40	124,020,715	124,020,755	94,128,155	218,148,910
1963	60,220	109,522,946	109,583,166	52,743,056	162,326,222
1964	84	149,020,029	149,020,113	53,835,616	202,855,729
1965	----	156,553,451	156,553,451	39,881,904	196,435,355
1966	2,385	132,592,138	132,594,523	57,250,249	189,844,772
1967	----	140,356,053	140,356,053	26,895,482	167,251,535
1968	98,492	152,928,017	153,026,509	59,211,941	212,238,450

TABLE 6
YEARLY LANDINGS IN POUNDS AND TONS
Anchovy, Pacific Herring and Sardine

Year	Anchovy		Pacific herring		Sardine*	
	Pounds	Tons	Pounds	Tons	Pounds	Tons
1916	531,209	266	2,928,591	1,464	15,648,839	7,824
1917	528,753	264	7,435,997	3,718	104,103,331	52,052
1918	868,161	434	7,938,280	3,969	157,652,811	78,826
1919	1,609,548	805	4,289,899	2,145	153,877,179	76,939
1920	569,774	285	274,364	137	118,520,914	59,260
1921	1,946,881	973	542,124	271	59,332,305	29,666
1922	652,516	326	341,621	171	93,399,900	46,700
1923	307,074	154	383,950	192	158,159,356	79,080
1924	346,951	174	435,620	218	242,685,958	121,343
1925	93,071	46	865,774	433	315,294,986	157,648
1926	60,157	30	453,607	227	286,741,250	143,371
1927	368,201	184	1,168,321	584	342,275,289	171,138
1928	357,470	179	1,139,682	570	420,269,665	210,135
1929	382,445	191	957,563	479	651,771,904	325,886
1930	319,561	160	717,634	359	502,062,747	251,031
1931	307,494	154	685,759	343	364,351,801	182,176
1932	299,217	150	765,724	383	422,609,716	211,305
1933	317,292	159	601,445	301	626,397,481	313,199
1934	257,505	129	801,601	401	1,119,931,099	559,966
1935	178,970	90	928,880	464	1,095,758,548	547,879
1936	195,122	98	840,530	420	1,463,543,700	731,772
1937	226,229	113	631,330	316	1,071,490,525	535,745
1938	735,144	368	504,884	252	1,023,389,489	511,695
1939	2,147,901	1,074	302,242	151	1,160,793,581	580,397
1940	6,317,797	3,159	453,193	227	905,973,403	452,987
1941	4,105,382	2,053	789,753	395	1,262,480,393	631,240
1942	1,694,290	847	190,815	95	969,747,099	484,874
1943	1,570,803	785	630,358	315	972,269,915	486,135
1944	3,891,029	1,946	422,290	211	1,147,207,882	573,604
1945	1,616,880	808	460,465	230	845,062,774	422,531
1946	1,921,627	961	481,776	241	510,759,173	255,380
1947	18,940,521	9,470	1,654,850	827	255,513,948	127,757
1948	10,835,930	5,418	8,000,492	4,000	362,037,087	181,018
1949	3,322,273	1,661	379,311	190	633,379,791	316,690
1950	4,878,687	2,439	1,425,351	713	714,522,761	357,261
1951	6,954,852	3,477	4,923,655	2,462	328,900,731	164,450
1952	55,782,870	27,891	9,495,386	4,748	14,330,420	7,165
1953	85,835,478	42,918	7,801,928	3,901	9,468,892	4,734
1954	42,410,364	21,205	911,906	456	136,504,017	68,252
1955	44,691,582	22,346	1,946,521	973	145,607,749	72,804
1956	56,920,585	28,460	1,735,776	868	69,554,345	34,777
1957	40,547,526	20,274	1,188,080	594	45,862,106	22,931
1958	11,602,724	5,801	2,399,730	1,200	207,445,837	103,723
1959	7,173,739	3,587	1,727,013	864	74,366,856	37,183
1960	5,058,603	2,529	1,800,672	900	57,532,719	28,766
1961	7,711,573	3,856	1,401,248	701	43,169,064	21,584
1962	2,764,003	1,382	1,305,569	653	15,362,952	7,682
1963	4,570,380	2,285	630,087	315	7,131,221	3,566
1964	4,975,089	2,488	349,270	175	13,137,483	6,569
1965	5,733,024	2,866	516,319	258	1,924,219	962
1966	62,280,236	31,140	241,973	121	878,359	439
1967	69,609,377	34,805	271,902	136	148,766	74
1968	31,076,116	15,538	357,869	179	124,088	62

* Includes Reduction Ships.

TABLE 7
YEARLY LANDINGS IN POUNDS AND TONS
Mackerel

Year	Jack mackerel		Pacific mackerel		Unclassified mackerel		Total	
	Pounds	Tons	Pounds	Tons	Pounds	Tons	Pounds	Tons
1916	----	--	----	--	1,113,998	557	1,113,998	557
1917	----	--	----	--	3,345,563	1,673	3,345,563	1,673
1918	----	--	----	--	4,005,906	2,003	4,005,906	2,003
1919	----	--	----	--	2,654,596	1,327	2,654,596	1,327
1920	----	--	----	--	2,997,308	1,499	2,997,308	1,499
1921	----	--	----	--	2,914,613	1,457	2,914,613	1,457
1922	----	--	----	--	2,466,762	1,233	2,466,762	1,233
1923	----	--	----	--	3,553,954	1,777	3,553,954	1,777
1924	----	--	----	--	3,227,300	1,614	3,227,300	1,614
1925	----	--	----	--	3,506,103	1,753	3,506,103	1,753
1926	235,151	118	3,610,098	1,805	----	--	3,845,249	1,923
1927	462,539	231	4,728,903	2,364	----	--	5,191,442	2,596
1928	538,446	269	35,251,298	17,626	----	--	35,789,744	17,895
1929	698,290	349	57,973,952	28,987	----	--	58,672,242	29,336
1930	368,828	184	16,531,364	8,266	----	--	16,900,192	8,450
1931	563,108	282	14,254,081	7,127	----	--	14,817,189	7,409
1932	536,409	268	12,473,746	6,237	----	--	13,010,155	6,505
1933	1,010,850	505	69,613,680	34,807	----	--	70,624,530	35,312
1934	1,581,274	791	113,848,585	56,924	----	--	115,429,859	57,715
1935	9,983,924	4,992	146,427,202	73,214	----	--	156,411,126	78,206
1936	4,599,382	2,300	100,542,214	50,271	----	--	105,141,596	52,571
1937	6,541,026	3,270	60,936,701	30,468	----	--	67,477,727	33,739
1938	4,133,918	2,067	79,848,015	39,924	----	--	83,981,933	41,991
1939	3,760,155	1,880	80,909,374	40,455	----	--	84,669,529	42,335
1940	1,432,637	716	120,504,412	60,252	----	--	121,937,049	60,968
1941	2,068,685	1,034	78,167,200	39,084	----	--	80,235,885	40,118
1942	5,348,501	2,674	52,553,663	26,277	----	--	57,902,164	28,951
1943	12,698,974	6,350	75,214,799	37,607	----	--	87,913,773	43,957
1944	12,777,077	6,388	83,656,900	41,828	----	--	96,433,977	48,217
1945	9,032,987	4,516	53,716,765	26,858	----	--	62,749,752	31,375
1946	15,093,321	7,547	53,875,327	26,938	----	--	68,968,648	34,484
1947	129,048,507	64,524	46,478,362	23,239	----	--	175,526,869	87,763
1948	72,898,335	36,449	39,385,801	19,693	----	--	112,284,136	56,142
1949	51,250,088	25,625	49,771,273	24,886	----	--	101,021,361	50,511
1950	133,255,752	66,628	32,649,969	16,325	----	--	165,905,721	82,953
1951	89,838,095	44,919	33,518,520	16,759	----	--	123,356,615	61,678
1952	146,521,673	73,261	20,604,761	10,302	----	--	167,126,434	83,563
1953	55,750,855	27,875	7,502,181	3,751	----	--	63,253,036	31,626
1954	17,333,581	8,667	25,392,604	12,696	----	--	42,726,185	21,363
1955	35,754,707	17,877	23,310,302	11,655	----	--	59,065,009	29,533
1956	75,762,110	37,881	50,013,009	25,006	----	--	125,775,119	62,888
1957	82,011,785	41,006	62,043,775	31,022	----	--	144,055,560	72,028
1958	22,065,801	11,033	27,648,485	13,824	----	--	49,714,286	24,857
1959	37,507,227	18,754	37,602,134	18,801	----	--	75,109,361	37,555
1960	74,945,453	37,473	36,808,690	18,404	----	--	111,754,143	55,877
1961	97,606,304	48,803	44,110,194	22,055	----	--	141,716,498	70,858
1962	89,978,933	44,990	48,578,820	24,289	----	--	138,557,753	69,279
1963	95,442,284	47,721	40,242,676	20,121	----	--	135,684,960	67,842
1964	89,692,911	44,846	26,827,881	13,414	----	--	116,520,792	58,260
1965	66,666,380	33,333	7,050,059	3,525	----	--	73,716,439	36,858
1966	40,862,409	20,431	4,629,504	2,315	----	--	45,491,913	22,746
1967	38,180,547	19,090	1,166,607	583	----	--	39,347,154	19,674
1968	55,667,682	27,834	3,133,446	1,567	----	--	58,801,128	29,400

TABLE 8
SEASONAL LANDINGS IN TONS
Sardines

Season*	Reduction ships	San Francisco area	Monterey area	Los Angeles area	San Diego area	Total tons
1916–17	----	----	7,710	17,380	2,440	27,530
1917–18	----	70	23,810	41,340	7,360	72,580
1918–19	----	450	35,750	32,530	6,810	75,540
1919–20	----	1,000	43,040	16,580	6,410	67,030
1920–21	----	230	24,960	11,740	1,520	38,450
1921–22	----	80	16,290	19,220	910	36,500
1922–23	----	110	29,210	33,170	2,620	65,110
1923–24	----	190	45,920	35,040	2,780	83,930
1924–25	----	560	67,310	96,330	8,820	173,020
1925–26	----	560	69,010	61,990	5,710	137,270
1926–27	----	3,520	81,860	64,720	2,110	152,210
1927–28	----	16,690	98,020	67,900	4,650	187,260
1928–29	----	13,520	120,290	119,250	1,420	254,480
1929–30	----	21,960	160,050	140,540	2,620	325,170
1930–31	10,960	25,970	109,620	38,490	80	185,120
1931–32	31,040	21,607	69,078	42,656	264	164,645
1932–33	58,790	18,634	89,599	83,605	62	250,690
1933–34	67,820	36,336	152,480	125,047	1,746	383,429
1934–35	112,040	68,477	230,854	178,818	4,865	595,054
1935–36	150,830	76,147	184,470	138,400	10,651	560,498
1936–37	235,610	141,099	206,706	138,115	4,594	726,124
1937–38	67,580	133,718	104,936	109,947	383	416,564
1938–39	43,890	201,200	180,994	146,403	2,800	575,287
1939–40	----	212,453	227,874	96,827	112	537,266
1940–41	----	118,092	165,698	175,592	1,202	460,584
1941–42	----	186,589	250,287	148,912	1,585	587,373
1942–43	----	115,884	184,399	201,510	2,868	504,661
1943–44	----	126,512	213,616	135,311	2,690	478,129
1944–45	----	136,598	237,246	178,294	2,767	554,905
1945–46	----	84,103	145,519	173,110	951	403,683
1946–47	----	2,869	31,391	194,774	4,768	233,802
1947–48	----	94	17,630	101,154	2,463	121,341
1948–49	----	112	47,862	131,830	3,922	183,726
1949–50	----	17,442	131,769	186,433	3,281	338,925
1950–51	----	12,727	33,699	303,752	2,910	353,088
1951–52	----	82	15,897	111,774	1,351	129,104
1952–53	----	----	49	5,635	27	5,711
1953–54	----	----	58	4,111	323	4,492
1954–55	----	----	856	67,099	510	68,465
1955–56	----	----	518	73,943	----	74,461
1956–57	----	----	63	33,564	16	33,643
1957–58	----	----	17	22,255	----	22,272
1958–59	----	----	24,701	79,264	6	103,971
1959–60	----	----	16,109	21,146	1	37,256
1960–61	----	----	2,340	26,436	102	28,878
1961–62	----	----	2,231	23,295	2	25,528
1962–63	----	----	1,211	2,961	----	4,172
1963–64	----	----	1,015	1,895	32	2,942
1964–65	----	----	308	5,717	78	6,103
1965–66	----	----	151	535	33	719
1966–67	----	----	23	311	10	344
1967–68	----	----	10	61	----	71

* Season June through the following May.

TABLE 9
YEARLY LANDINGS IN POUNDS
Salmon

Year	Coastal ports	Sacramento area ports	Coastal rivers	Total pounds
1916	5,592,216	3,450,786	1,896,592	10,939,594
1917	6,085,997	3,975,487	999,097	11,060,581
1918	5,933,346	5,938,029	1,221,813	13,093,188
1919	7,208,382	4,529,222	1,408,123	13,145,727
1920	6,066,190	3,860,312	1,207,317	11,133,819
1921	4,483,105	2,511,127	996,700	7,990,932
1922	4,338,317	1,765,066	1,131,741	7,235,124
1923	3,736,924	2,243,945	1,109,391	7,090,260
1924	6,374,573	2,640,110	1,000,586	10,015,269
1925	5,481,536	2,778,846	1,265,371	9,525,753
1926	3,863,677	1,261,776	958,626	6,084,079
1927	4,921,600	920,786	669,543	6,511,929
1928	3,444,306	553,777	480,483	4,478,566
1929	4,033,660	581,497	429,714	5,044,871
1930	4,085,650	1,213,698	703,546	6,002,894
1931	3,666,841	941,605	686,065	5,294,511
1932	2,649,204	1,264,987	703,990	4,618,181
1933	3,657,661	454,253	446,520	4,558,434
1934	3,921,530	397,572	----	4,319,102
1935	4,773,112	888,868	----	5,661,980
1936	4,093,475	949,179	----	5,042,654
1937	5,934,996	974,871	----	6,909,867
1938	2,170,921	1,668,376	----	3,839,297
1939	2,238,755	496,933	----	2,735,688
1940	5,160,393	1,515,588	----	6,675,981
1941	2,946,030	844,963	----	3,790,993
1942	4,063,306	2,552,944	----	6,616,250
1943	5,285,527	1,295,424	----	6,580,951
1944	7,021,848	3,265,143	----	10,286,991
1945	7,912,754	5,467,960	----	13,380,714
1946	7,196,527	6,463,245	----	13,659,772
1947	8,104,297	3,380,484	----	11,484,781
1948	5,860,915	1,939,801	----	7,800,716
1949	5,531,021	899,090	----	6,430,111
1950	5,867,346	1,202,890	----	7,070,236
1951	5,849,530	1,343,171	----	7,192,701
1952	6,536,890	738,081	----	7,274,971
1953	7,136,223	869,696	----	8,005,919
1954	8,599,579	900,961	----	9,500,540
1955	9,656,996	2,320,746	----	11,977,742
1956	10,274,902	1,139,585	----	11,414,487
1957	5,176,909	321,824	----	5,498,733
1958	3,656,841	----	----	3,656,841
1959	6,768,699	463	----	6,769,162
1960	6,221,445	----	----	6,221,445
1961	8,637,907	----	----	8,637,907
1962	6,672,861	----	----	6,672,861
1963	7,859,186	----	----	7,859,186
1964	9,481,215	----	----	9,481,215
1965	9,737,775	----	----	9,737,775
1966	9,446,995	----	----	9,446,995
1967	7,401,729	----	----	7,401,729
1968	6,951,931	----	----	6,951,931

TABLE 10
YEARLY LANDINGS IN POUNDS
California barracuda

Year	California waters	South of state	Total pounds
1916	2,226,993	460,369	2,687,362
1917	2,965,368	94,955	3,060,323
1918	3,885,691	951,593	4,837,284
1919	4,038,852	1,786,105	5,824,957
1920	4,585,388	3,615,947	8,201,335
1921	4,588,900	3,036,262	7,625,162
1922	4,721,448	1,528,770	6,250,218
1923	5,135,824	2,064,751	7,200,575
1924	4,733,779	2,394,744	7,128,523
1925	5,976,453	2,059,996	8,036,449
1926	2,945,169	2,077,295	5,022,464
1927	4,355,583	1,844,156	6,199,739
1928	4,385,214	2,067,242	6,452,456
1929	3,925,899	1,302,711	5,228,610
1930	3,513,608	1,250,158	4,763,766
1931	3,336,065	841,473	4,177,538
1932	2,505,101	421,674	2,926,775
1933	2,912,152	160,810	3,072,962
1934	1,801,264	381,558	2,182,822
1935	2,003,947	613,877	2,617,824
1936	2,247,858	729,984	2,977,842
1937	1,799,045	1,139,445	2,938,490
1938	1,260,790	1,269,022	2,529,812
1939	2,967,780	1,124,274	4,092,054
1940	2,545,661	1,169,171	3,714,832
1941	2,971,349	1,230,579	4,201,928
1942	2,243,163	1,211,374	3,454,537
1943	2,382,884	1,392,454	3,775,338
1944	2,317,430	1,330,878	3,648,308
1945	1,744,560	2,128,697	3,873,257
1946	1,637,346	1,469,678	3,107,024
1947	1,695,867	969,878	2,665,745
1948	1,100,081	1,025,656	2,125,737
1949	903,574	1,554,110	2,457,684
1950	890,435	1,367,980	2,258,415
1951	670,015	1,436,913	2,106,928
1952	747,667	1,346,539	2,094,206
1953	565,942	872,904	1,438,846
1954	485,946	1,076,793	1,562,739
1955	322,831	818,128	1,140,959
1956	50,153	702,374	752,527
1957	387,143	295,523	682,666
1958	753,266	161,993	915,259
1959	1,110,409	42,192	1,152,601
1960	1,147,831	81,837	1,229,668
1961	478,362	231,017	709,379
1962	521,769	224,707	746,476
1963	347,354	31,360	378,714
1964	251,025	83,115	334,140
1965	273,003	89,055	362,058
1966	233,319	85,797	319,116
1967	281,224	31,960	313,184
1968	114,534	25,966	140,500

TABLE 11
YEARLY LANDINGS IN POUNDS
Pacific bonito

Year	California waters	South of state	Total pounds
1916	465,691	14,715	480,406
1917	889,376	----	889,376
1918	2,265,047	176,667	2,441,714
1919	2,908,745	600,353	3,509,098
1920	672,393	201,255	873,648
1921	241,859	82,878	324,737
1922	894,292	63,650	957,942
1923	478,771	636,476	1,115,247
1924	843,095	202,187	1,045,282
1925	782,868	96,298	879,166
1926	2,942,906	178,698	3,121,604
1927	1,121,476	596,532	1,718,008
1928	1,336,719	770,370	2,107,089
1929	593,886	2,324,658	2,918,544
1930	3,866,496	1,297,764	5,164,260
1931	3,014,135	65,538	3,079,673
1932	1,676,487	1,185,799	2,862,286
1933	1,967,244	284,955	2,252,199
1934	3,003,048	199,646	3,202,694
1935	2,263,740	5,632,744	7,896,484
1936	2,216,679	4,999,237	7,215,916
1937	5,707,212	2,100,858	7,808,070
1938	4,684,570	3,155,423	7,839,993
1939	6,697,249	3,221,626	9,918,875
1940	3,553,121	1,738,019	5,291,140
1941	7,850,496	3,057,106	10,907,602
1942	860,833	789,856	1,650,689
1943	801,535	1,480,764	2,282,299
1944	326,175	492,696	818,871
1945	339,664	2,374,517	2,714,181
1946	582,948	5,042,700	5,625,648
1947	384,327	13,312,856	13,697,183
1948	214,992	8,920,134	9,135,126
1949	99,244	1,730,297	1,829,541
1950	33,456	662,158	695,614
1951	54,047	722,756	776,803
1952	7,504	2,135,013	2,142,517
1953	19,069	3,083,578	3,102,647
1954	218,701	2,100,359	2,319,060
1955	40,354	96,636	136,990
1956	22,491	105,123	127,614
1957	110,174	108,975	219,149
1958	4,804,784	742,022	5,546,806
1959	3,003,058	8,558	3,011,616
1960	1,219,682	30,862	1,250,544
1961	8,439,400	73,572	8,512,972
1962	2,071,998	62,904	2,134,902
1963	4,013,505	9,017	4,022,522
1964	2,606,411	5,858	2,612,269
1965	5,632,399	5,941	5,638,340
1966	18,308,175	840,319	19,148,494
1967	17,841,537	3,377,894	21,219,431
1968	14,903,357	18,572	14,921,929

TABLE 12
YEARLY LANDINGS IN POUNDS
Giant sea bass

Year	California waters	South of state	Total pounds
1916	129,414	24,026	153,440
1917	152,570	5,810	158,380
1918	210,432	38,363	248,795
1919	126,997	58,273	185,270
1920	89,869	58,168	148,037
1921	87,196	40,235	127,431
1922	83,692	13,662	97,354
1923	75,740	151,255	226,995
1924	88,677	142,727	231,404
1925	102,904	86,168	189,072
1926	120,070	257,864	377,934
1927	182,726	284,869	467,595
1928	204,862	177,253	382,115
1929	164,093	240,293	404,386
1930	187,473	206,536	394,009
1931	254,017	248,047	502,064
1932	231,203	242,643	473,846
1933	119,582	333,441	453,023
1934	53,752	807,746	861,498
1935	17,223	614,536	631,759
1936	19,854	378,741	398,595
1937	20,412	695,172	715,584
1938	34,848	372,978	407,826
1939	32,964	427,979	460,943
1940	42,784	323,899	366,683
1941	37,801	371,736	409,537
1942	13,717	365,063	378,780
1943	19,271	681,584	700,855
1944	18,478	416,402	434,880
1945	10,481	319,687	330,168
1946	26,325	406,236	432,561
1947	18,922	225,382	244,304
1948	16,637	171,374	188,011
1949	17,221	97,180	114,401
1950	11,903	138,893	150,796
1951	8,590	268,894	277,484
1952	5,272	308,222	313,494
1953	7,823	404,156	411,979
1954	5,835	344,441	350,276
1955	7,663	357,824	365,487
1956	39,610	291,708	331,318
1957	9,302	233,051	242,353
1958	9,962	206,065	216,027
1959	10,085	239,824	249,909
1960	20,565	221,125	241,690
1961	12,509	327,854	340,363
1962	8,188	438,021	446,209
1963	13,960	289,619	303,579
1964	14,018	208,697	222,715
1965	13,053	338,697	351,750
1966	7,486	333,481	340,967
1967	11,893	218,711	230,604
1968	14,919	143,502	158,421

TABLE 13
YEARLY LANDINGS IN POUNDS
White seabass

Year	California waters	South of state	Total pounds
1916	477,091	321,024	798,115
1917	869,187	30,810	899,997
1918	1,458,667	154,853	1,613,520
1919	2,380,713	74,654	2,455,367
1920	2,375,646	252,462	2,628,108
1921	2,069,414	500,075	2,569,489
1922	2,195,831	736,220	2,932,051
1923	1,781,970	591,877	2,373,847
1924	938,760	550,829	1,489,589
1925	890,437	994,672	1,885,109
1926	1,477,789	738,613	2,216,402
1927	806,559	1,466,848	2,273,407
1928	824,879	475,335	1,300,214
1929	955,556	606,676	1,562,232
1930	1,239,285	387,137	1,626,422
1931	1,058,162	341,251	1,399,413
1932	667,363	137,433	804,796
1933	828,129	334,950	1,163,079
1934	468,299	382,898	851,197
1935	648,900	417,519	1,066,419
1936	564,956	243,137	808,093
1937	263,195	336,224	599,419
1938	269,987	356,660	626,647
1939	806,604	187,792	994,396
1940	811,307	104,409	915,716
1941	832,454	75,842	908,296
1942	356,655	197,200	553,855
1943	379,178	121,005	500,183
1944	254,070	139,918	393,988
1945	380,468	147,262	527,730
1946	472,204	144,272	616,476
1947	692,314	390,709	1,083,023
1948	789,691	324,599	1,114,290
1949	945,502	464,097	1,409,599
1950	1,123,463	407,911	1,531,374
1951	955,428	577,827	1,533,255
1952	692,292	454,811	1,147,103
1953	471,206	402,087	873,293
1954	434,354	771,757	1,206,111
1955	544,953	369,912	914,865
1956	413,956	667,267	1,081,223
1957	1,261,955	245,140	1,507,095
1958	2,750,652	99,111	2,849,763
1959	3,385,791	37,562	3,423,353
1960	1,086,895	149,303	1,236,198
1961	458,491	235,733	694,224
1962	208,867	365,541	574,408
1963	372,479	518,741	891,220
1964	550,817	840,264	1,391,081
1965	577,607	850,538	1,428,145
1966	674,545	663,305	1,337,850
1967	507,588	715,171	1,222,759
1968	210,050	651,830	861,880

TABLE 14
YEARLY LANDINGS IN POUNDS
California yellowtail

Year	California waters	South of state	Total pounds
1916	1,137,253	16,141	1,153,394
1917	2,736,906	9,089	2,745,995
1918	11,375,426	139,946	11,515,372
1919	4,871,763	133,502	5,005,265
1920	2,486,537	218,400	2,704,937
1921	2,139,626	351,170	2,490,796
1922	3,111,131	303,292	3,414,423
1923	2,968,596	1,094,012	4,062,608
1924	2,863,012	1,851,137	4,714,149
1925	2,586,621	593,270	3,179,891
1926	3,173,424	1,849,690	5,023,114
1927	1,435,456	2,789,397	4,224,853
1928	1,297,037	1,386,477	2,683,514
1929	849,945	2,225,319	3,075,264
1930	1,214,959	3,555,797	4,770,756
1931	1,690,680	835,173	2,525,853
1932	1,024,086	772,278	1,796,364
1933	1,233,286	2,665,602	3,898,888
1934	210,590	2,136,571	2,347,161
1935	582,589	7,566,129	8,148,718
1936	253,723	9,838,747	10,092,470
1937	223,983	5,147,492	5,371,475
1938	246,238	6,566,080	6,812,318
1939	262,524	2,603,764	2,866,288
1940	329,036	5,627,768	5,956,804
1941	95,924	9,734,766	9,830,690
1942	55,017	2,671,252	2,726,269
1943	33,359	4,901,520	4,934,879
1944	28,464	2,928,707	2,957,171
1945	23,415	3,510,637	3,534,052
1946	31,285	4,530,298	4,561,583
1947	103,706	9,849,148	9,952,854
1948	246,553	10,138,141	10,384,694
1949	15,907	7,301,833	7,317,740
1950	5,727	3,524,174	3,529,901
1951	14,454	4,655,282	4,669,736
1952	51,116	9,395,863	9,446,979
1953	14,379	5,198,004	5,212,383
1954	11,846	1,644,932	1,656,778
1955	5,570	158,752	164,322
1956	18,598	352,289	370,887
1957	150,898	358,053	508,951
1958	105,486	64,144	169,630
1959	207,187	24,097	231,284
1960	156,518	92,115	248,633
1961	80,689	300,080	380,769
1962	37,066	151,355	188,421
1963	25,443	44,283	69,726
1964	25,878	84,221	110,099
1965	12,522	115,283	127,805
1966	35,880	209,327	245,207
1967	13,179	137,489	150,668
1968	22,460	140,717	163,177

TABLE 15
YEARLY LANDINGS IN POUNDS
Flatfish other than sole

Year	California halibut	Pacific halibut	Arrowtooth flounder*	Starry flounder	Sanddab	Turbot
1916	4,052,173	70,344	----	453,916	2,228,734	2,608
1917	4,379,312	131,585	----	1,151,876	2,631,862	1,327
1918	4,624,218	129,473	----	818,835	1,751,609	3,664
1919	4,698,123	161,375	----	435,731	709,738	2,115
1920	4,279,582	165,308	----	481,587	721,810	855
1921	3,653,861	141,896	----	293,656	784,011	219
1922	3,254,505	148,979	----	539,220	1,170,979	1,534
1923	2,229,381	197,456	----	508,961	1,363,911	1,011
1924	2,576,882	132,016	----	379,770	1,699,832	1,868
1925	2,452,551	161,310	----	594,420	1,952,847	3,926
1926	1,349,031	338,689	----	667,711	1,143,935	1,365
1927	1,303,559	568,672	----	590,064	892,718	3,950
1928	1,187,651	375,840	----	399,880	1,108,764	9,234
1929	1,102,573	750,624	----	580,752	1,051,868	1,323
1930	1,097,760	413,958	----	391,096	616,349	7,345
1931	969,773	790,384	----	169,806	472,805	18,284
1932	949,702	645,828	----	543,806	665,345	23,422
1933	989,649	321,664	----	457,998	562,994	49,615
1934	1,037,008	1,022,965	----	537,164	767,025	72,548
1935	1,575,863	872,971	----	656,113	675,597	72,287
1936	1,582,907	530,457	----	621,186	621,675	116,275
1937	1,207,235	316,641	----	974,770	516,195	75,990
1938	1,078,229	421,910	----	542,812	639,328	85,896
1939	991,621	402,250	----	739,311	821,204	104,585
1940	948,457	309,491	----	804,089	779,078	62,124
1941	706,650	234,762	----	601,577	442,487	26,940
1942	750,539	238,988	----	370,125	353,540	6,571
1943	1,111,998	281,121	----	505,399	505,338	38,047
1944	1,485,463	250,946	----	366,520	551,269	72,825
1945	1,748,821	290,138	----	337,543	592,062	159,870
1946	2,457,187	403,070	----	509,448	679,072	49,847
1947	1,787,901	282,100	----	527,072	701,413	101,784
1948	1,306,629	130,589	----	405,251	804,695	114,701
1949	1,256,435	167,347	----	356,374	722,183	95,605
1950	1,092,748	201,900	74,309	913,765	690,621	128,080
1951	868,201	86,749	59,801	1,128,892	543,821	110,164
1952	525,402	242,581	112,913	597,477	659,874	81,895
1953	530,315	98,219	88,367	502,526	690,443	69,158
1954	661,331	90,682	550,457	500,550	753,471	175,918
1955	509,742	51,942	748,249	650,180	781,564	100,498
1956	455,659	39,158	1,070,597	375,400	789,280	83,294
1957	376,815	26,206	933,715	504,461	692,083	96,055
1958	267,446	8,271	643,880	471,202	406,438	72,533
1959	354,242	8,345	787,254	1,046,926	466,684	129,225
1960	376,263	4,916	1,007,679	259,038	348,373	62,438
1961	654,554	3,961	†60,659	315,337	562,964	71,367
1962	863,086	3,546	53,326	338,192	679,911	80,383
1963	1,120,369	4,508	17,345	521,310	555,783	96,819
1964	1,276,105	3,040	9,735	420,986	589,526	93,280
1965	1,243,718	5,019	11,595	378,389	479,041	78,531
1966	1,011,412	671	3,503	380,628	720,101	83,327
1967	838,058	498	6,041	870,707	687,168	72,853
1968	671,654	127	13,400	856,157	714,622	69,504

* Arrowtooth flounder were tabulated with unclassified sole prior to 1950.
† The drop in landings after 1960 reflects a change in reporting animal food landings (see text).

TABLE 16
YEARLY LANDINGS IN POUNDS
Sole *

Year	Dover	English	Petrale	Rex	Sand	Unclassified	Total pounds
1916	----	----	----	----	----	6,407,186	6,407,186
1917	----	----	----	----	----	8,728,429	8,728,429
1918	----	----	----	----	----	7,027,767	7,027,767
1919	----	----	----	----	----	5,528,685	5,528,685
1920	----	----	----	----	----	3,821,748	3,821,748
1921	----	----	----	----	----	4,870,870	4,870,870
1922	----	----	----	----	----	7,043,336	7,043,336
1923	----	----	----	----	----	7,086,035	7,086,035
1924	----	----	----	----	----	8,835,351	8,835,351
1925	----	----	----	----	----	8,762,535	8,762,535
1926	----	----	----	----	----	8,649,870	8,649,870
1927	----	----	----	----	----	10,479,765	10,479,765
1928	----	----	----	----	----	10,281,719	10,281,719
1929	----	----	----	----	----	11,706,761	11,706,761
1930	----	----	----	----	----	10,924,085	10,924,085
1931	----	----	1,375,535	831,240	----	7,206,107	9,412,882
1932	----	----	1,227,223	555,558	----	7,108,059	8,890,840
1933	----	----	953,424	559,743	----	6,797,928	8,311,095
1934	----	5,280,154	2,456,989	715,498	----	514,962	8,967,603
1935	----	6,035,966	1,988,325	631,432	----	508,540	9,164,263
1936	----	6,286,867	1,126,527	515,648	----	395,966	8,325,008
1937	----	5,750,060	1,802,721	451,497	----	297,944	8,302,222
1938	----	4,953,934	2,026,166	515,254	----	242,293	7,737,647
1939	----	6,270,424	2,558,461	667,496	----	248,411	9,744,792
1940	----	5,056,535	1,575,489	593,359	----	162,622	7,388,005
1941	----	3,278,638	893,426	371,130	----	82,661	4,625,855
1942	----	2,020,562	611,580	387,545	----	136,070	3,155,757
1943	----	3,092,170	918,925	495,672	----	275,612	4,782,379
1944	----	3,066,865	1,123,986	413,286	----	96,237	4,700,374
1945	----	5,857,240	1,232,801	442,179	----	250,482	7,782,702
1946	----	7,176,727	2,666,285	570,418	----	151,263	10,564,693
1947	----	8,379,502	2,947,177	842,968	----	163,947	12,333,594
1948	7,234,438	8,171,645	5,089,684	893,248	----	265,924	21,654,939
1949	7,890,073	5,713,258	4,952,156	982,307	----	191,691	19,729,485
1950	9,548,379	8,080,693	4,366,598	1,068,456	----	812,382	23,876,508
1951	8,621,238	5,631,659	2,726,304	1,013,890	----	179,369	18,172,460
1952	11,748,215	4,911,468	2,893,619	1,185,451	----	70,563	20,809,316
1953	8,904,367	4,099,106	3,350,163	1,020,877	34,542	36,958	17,446,013
1954	9,930,438	3,748,245	4,171,901	1,183,538	75,544	72,056	19,181,722
1955	8,185,501	4,134,779	3,619,530	1,094,437	92,572	19,425	17,146,244
1956	8,268,424	3,826,297	2,830,158	1,147,523	77,357	22,852	16,172,611
1957	7,932,137	4,819,872	3,456,819	1,234,494	56,061	28,252	17,527,635
1958	8,053,040	5,150,234	3,157,678	1,422,891	24,435	15,214	17,823,492
1959	7,327,420	4,617,491	2,632,451	1,443,005	95,765	21,197	16,137,329
1960	9,184,814	2,375,383	2,475,661	1,107,372	73,464	228,066	15,444,760
1961	7,826,617	3,645,918	3,390,739	1,208,829	77,130	34,484	16,183,717
1962	8,581,091	4,206,048	3,041,164	1,408,245	196,565	68,444	17,501,557
1963	9,781,732	4,254,545	3,317,948	1,565,672	331,208	43,415	19,294,520
1964	9,265,238	4,592,752	2,697,670	1,410,647	336,197	47,265	18,349,769
1965	10,759,963	4,892,391	2,662,257	1,490,475	310,444	43,016	20,158,546
1966	10,311,633	4,844,868	2,927,190	1,635,399	235,691	25,957	19,980,738
1967	7,215,037	5,821,909	2,768,537	1,766,038	305,897	31,712	17,909,130
1968	8,535,521	5,811,438	2,946,605	1,930,583	211,376	29,614	19,465,137

* Prior to 1931, all soles were combined as one group; individual species were tabulated separately when they became sufficiently important.

TABLE 17
YEARLY LANDINGS IN POUNDS
Perch and perch-like fishes

Year	Opaleye	Halfmoon	Blacksmith	Sargo	Perch	Total pounds
1916	----	----	----	----	221,186	221,186
1917	----	----	----	----	252,503	252,503
1918	----	----	----	----	203,420	203,420
1919	----	----	----	----	192,481	192,481
1920	----	----	----	----	186,381	186,381
1921	----	----	----	----	253,199	253,199
1922	----	----	----	----	243,776	243,776
1923	----	----	----	----	359,682	359,682
1924	----	----	----	----	305,726	305,726
1925	----	----	----	----	272,351	272,351
1926	----	----	----	----	208,910	208,910
1927	----	----	----	----	262,893	262,893
1928	----	30,104	----	----	236,974	267,078
1929	----	16,308	----	----	311,194	327,502
1930	----	36,765	----	----	267,972	304,737
1931	17,913	24,692	----	260	223,092	265,957
1932	15,279	21,547	----	----	207,222	244,048
1933	4,272	8,880	----	503	214,511	228,166
1934	3,896	28,394	----	334	192,596	225,220
1935	1,424	33,432	----	5,226	241,525	281,607
1936	1,781	42,166	----	515	207,280	251,742
1937	1,778	34,333	100	3,069	210,309	249,589
1938	100	27,501	----	5	155,815	183,421
1939	20	----	----	773	139,394	140,187
1940	39	192	----	435	57,977	58,643
1941	----	----	----	220	25,832	26,052
1942	66	----	----	----	58,018	58,084
1943	17	----	----	----	113,018	113,035
1944	7	----	----	2,305	146,546	148,858
1945	----	----	----	1,384	217,486	218,870
1946	----	----	----	196	192,430	192,626
1947	1,519	----	----	44	289,182	290,745
1948	564	614	----	1,899	302,087	305,164
1949	954	----	----	31	326,336	327,321
1950	6,278	1,604	----	27	242,354	250,263
1951	1,006	254	----	1,580	237,331	240,171
1952	525	----	83,811	----	213,357	297,693
1953	392	----	14,200	----	281,998	296,590
1954	9,164	50,007	----	2,040	118,499	179,710
1955	6,117	34,410	----	695	136,554	177,776
1956	3,433	15,108	----	----	187,681	206,222
1957	5,198	12,872	----	----	245,699	263,769
1958	2,351	4,455	3	1,740	189,679	198,228
1959	4,866	3,639	----	35	212,853	221,393
1960	1,208	2,904	----	222	164,273	168,607
1961	2,337	5,907	----	44	118,245	126,533
1962	1,674	8,536	20	59	165,115	175,404
1963	4,378	8,683	2,900	171	172,884	189,016
1964	2,001	10,043	145,143	11	133,115	290,313
1965	3,149	10,518	117,785	128	187,736	319,316
1966	19,432	9,530	6,920	1,120	160,381	197,383
1967	17,298	25,431	7,620	41	202,513	252,903
1968	11,173	49,617	137,634	46	168,040	366,510

TABLE 18
YEARLY LANDINGS IN POUNDS
Fishes

Year	Cabezon	White croaker*	Pacific hake	Lingcod	Rockfish	Sablefish
1916	569	779,287	189,219	617,236	4,918,952	83,623
1917	434	835,259	254,331	930,519	7,774,026	909,846
1918	167	1,014,820	193,018	915,836	8,242,754	498,937
1919	----	609,175	133,181	1,063,136	5,398,109	334,950
1920	----	461,459	141,981	687,954	5,633,077	781,032
1921	----	391,085	90,218	425,543	4,761,658	1,022,642
1922	----	581,863	74,516	568,481	4,312,014	268,554
1923	----	411,564	78,969	467,347	5,096,622	538,292
1924	----	384,317	60,780	400,432	4,742,885	933,310
1925	3,352	536,654	22,017	683,130	5,488,621	722,472
1926	----	484,921	58,335	649,902	7,540,969	175,642
1927	752	529,267	84,553	556,308	6,390,604	992,654
1928	2,628	441,758	108,648	853,537	6,419,909	916,955
1929	1,196	476,497	145,669	1,167,120	6,036,409	1,439,408
1930	1,046	457,167	56,088	1,288,172	7,225,424	1,359,147
1931	1,115	414,034	12,501	1,229,088	7,277,688	1,021,215
1932	4,678	447,531	29,001	899,912	5,636,319	975,373
1933	4,265	564,274	37,539	1,088,955	4,787,774	1,332,573
1934	5,265	634,345	56,901	857,600	4,603,536	2,117,048
1935	10,537	768,676	73,843	1,017,455	4,831,174	2,848,672
1936	18,468	652,134	50,791	758,547	4,603,904	1,035,530
1937	8,189	645,759	63,454	968,258	4,291,214	733,499
1938	5,425	493,209	36,428	646,004	3,637,137	415,836
1939	4,023	542,901	13,661	576,972	3,333,126	767,044
1940	3,392	412,228	18,049	692,243	3,570,636	573,785
1941	13,346	325,155	15,044	529,772	3,405,622	536,540
1942	2,312	284,225	41,981	314,334	1,423,440	1,972,522
1943	7,532	396,633	10,505	719,318	2,762,192	3,205,374
1944	3,906	367,701	4,751	746,039	6,422,230	4,116,451
1945	4,417	459,515	2,415	758,395	13,286,076	6,264,397
1946	7,860	437,023	550	1,156,127	11,161,222	2,656,873
1947	4,526	458,686	876	1,940,747	8,498,584	902,110
1948	8,202	643,123	4,600	2,056,088	6,507,205	2,068,439
1949	16,073	764,429	1,535	1,656,184	5,962,267	1,743,372
1950	21,679	750,722	500	1,915,905	8,115,102	1,584,301
1951	23,875	682,269	24,972	1,672,114	10,993,502	2,585,513
1952	34,556	3,273,702	6,145	1,366,279	10,727,521	1,343,867
1953	13,365	1,201,134	103,926	952,103	12,228,663	1,655,653
1954	6,262	913,802	611,522	947,383	12,640,729	2,357,531
1955	6,944	819,488	956,545	964,926	12,681,697	2,065,737
1956	12,415	889,870	1,376,217	931,311	14,943,515	2,868,407
1957	13,206	535,362	1,150,006	1,639,654	16,091,279	2,199,782
1958	19,612	770,534	1,135,138	1,599,515	17,842,163	1,732,992
1959	9,508	1,534,382	1,097,069	1,406,297	15,281,282	1,938,356
1960	3,067	1,078,119	325,088	1,307,129	13,713,886	2,419,024
1961	4,952	889,164	†3,275	1,439,943	10,830,762	1,616,528
1962	2,474	687,633	78,530	1,112,204	9,834,393	2,015,237
1963	2,811	551,059	139,699	1,133,008	11,749,460	1,809,349
1964	5,281	838,584	111,529	836,377	8,117,912	2,463,452
1965	7,438	1,135,566	119,255	812,690	9,392,424	2,863,550
1966	12,599	790,997	69,002	800,303	10,063,592	3,215,939
1967	14,284	496,378	14,430	938,655	9,798,951	3,798,493
1968	20,106	941,304	6,494	1,094,054	9,444,396	3,219,455

* White croaker includes queenfish.
† The drop in landings after 1960 reflects a change in reporting animal food landings (see text).

TABLE 18—Continued
YEARLY LANDINGS IN POUNDS
Fishes

Year	Sculpin	Shark	California sheephead	Smelt	Swordfish	Whitebait smelt
1916	8,014	36,247	3,549	991,509	----	161,797
1917	17,425	287,872	5,906	984,270	----	123,079
1918	28,237	403,093	22,978	796,984	18,442	135,857
1919	25,432	612,683	17,972	756,980	18,252	5,915
1920	35,674	811,349	14,567	744,187	12,513	678
1921	58,380	539,333	23,925	765,073	14,803	5,229
1922	42,121	282,018	18,205	830,140	23,256	84,007
1923	60,466	360,363	31,628	806,380	11,691	67,818
1924	109,070	392,634	24,267	721,912	31,833	122,483
1925	223,104	372,332	48,811	751,669	27,045	70,968
1926	108,068	506,723	138,927	883,123	45,543	85,557
1927	113,457	325,653	159,397	965,921	130,288	134,149
1928	97,083	623,816	372,677	926,116	426,001	135,186
1929	107,797	833,985	288,422	933,095	693,081	243,119
1930	88,610	647,297	243,689	1,054,665	562,729	174,917
1931	91,688	596,134	198,347	1,074,810	340,769	141,495
1932	85,503	850,888	89,591	899,216	661,470	133,540
1933	64,160	471,030	58,609	729,702	850,699	95,751
1934	65,939	526,280	143,552	732,191	263,958	105,982
1935	69,549	555,256	188,022	875,480	669,283	164,345
1936	110,417	471,861	128,577	841,231	577,402	197,738
1937	137,312	914,205	81,466	682,070	625,307	86,177
1938	155,386	7,504,329	72,031	567,861	722,478	106,724
1939	128,628	9,227,750	71,361	474,936	594,360	166,883
1940	122,133	7,860,030	62,352	449,360	887,168	127,449
1941	95,287	7,617,334	49,119	452,739	916,739	131,102
1942	44,332	3,551,566	50,258	443,939	445,908	159,258
1943	42,550	3,729,334	151,048	1,566,273	336,386	141,367
1944	57,270	2,613,431	168,653	1,541,044	751,596	269,425
1945	94,656	2,438,096	249,584	2,369,580	363,093	291,152
1946	145,129	1,608,846	267,125	793,336	863,494	344,477
1947	127,048	2,637,926	193,489	713,310	1,009,957	326,616
1948	155,076	2,480,555	100,227	782,096	1,113,808	222,499
1949	148,367	1,550,992	63,524	715,616	198,361	241,764
1950	139,523	717,247	66,209	590,968	26,494	207,607
1951	101,437	842,324	61,410	1,095,665	228,034	162,054
1952	83,610	623,238	36,231	646,679	265,690	152,115
1953	119,628	449,753	35,426	670,116	142,831	179,292
1954	134,310	770,337	29,184	609,082	23,055	267,426
1955	108,056	576,201	13,152	780,172	134,659	214,558
1956	100,232	1,085,314	6,575	466,333	275,174	148,820
1957	73,268	728,900	11,033	371,472	375,986	243,600
1958	64,872	491,713	11,366	549,864	471,775	306,805
1959	37,342	602,191	10,233	551,945	448,220	274,408
1960	29,203	694,191	4,740	429,299	324,754	168,458
1961	26,718	623,972	12,602	491,265	368,855	335,852
1962	57,951	753,177	20,327	339,498	39,057	188,357
1963	75,521	665,367	28,011	358,456	98,074	148,080
1964	94,225	646,569	17,934	414,039	183,023	191,215
1965	82,736	648,265	12,153	368,951	327,174	148,596
1966	108,499	653,790	15,984	522,457	468,772	162,259
1967	82,656	596,898	19,628	591,975	305,067	199,694
1968	125,175	499,947	12,750	443,062	199,398	238,061

TABLE 19
YEARLY LANDINGS IN POUNDS
Crustaceans

Year	Market crab	Rock crab	Spiny lobster	Bay shrimp	Ocean shrimp	Spot prawn
1916	1,296,912	----	250,632	411,847	----	----
1917	2,580,840	----	355,259	605,004	----	----
1918	1,619,280	----	195,750	722,178	----	----
1919	1,304,904	----	256,894	747,023	----	----
1920	1,220,568	----	247,156	817,091	----	----
1921	800,952	----	334,271	907,467	----	1,006
1922	860,328	----	376,310	990,349	----	----
1923	1,075,800	----	384,381	1,113,358	----	----
1924	1,506,816	----	294,356	1,551,086	----	----
1925	3,234,312	----	432,059	1,460,234	----	----
1926	3,296,280	----	442,198	1,431,511	----	----
1927	2,960,712	----	508,123	1,697,365	----	----
1928	3,574,464	270	355,800	2,280,871	----	----
1929	1,792,776	----	396,764	3,054,748	----	----
1930	1,992,384	12	374,450	2,687,831	----	8,736
1931	2,231,384	56	383,697	1,684,763	----	4,114
1932	2,433,987	145	319,307	2,681,807	----	982
1933	3,208,494	14,818	380,014	2,087,952	----	798
1934	3,768,081	24,570	366,651	1,783,663	----	910
1935	3,680,188	12,817	371,661	3,445,091	----	2,351
1936	2,311,802	16,202	414,183	2,240,849	----	1,861
1937	1,627,753	1,710	393,242	1,108,761	----	3,041
1938	3,873,600	3,847	308,378	1,847,926	----	3,285
1939	5,953,361	3,984	376,928	1,175,979	----	4,271
1940	5,151,014	3,460	281,102	1,080,190	----	2,361
1941	4,260,340	2,645	357,334	952,152	----	5,257
1942	2,414,110	80	168,641	800,958	----	----
1943	2,315,338	----	298,377	253,215	----	43
1944	2,934,776	540	512,490	291,974	----	----
1945	4,334,383	12,188	478,619	382,147	----	1,452
1946	9,624,368	11,600	690,272	432,145	----	5,175
1947	10,733,398	15,244	593,401	841,086	----	1,687
1948	11,892,891	20,938	563,520	926,707	----	2,771
1949	11,115,476	18,636	834,658	800,441	----	3,952
1950	11,704,648	20,007	933,449	913,181	----	5,790
1951	11,568,353	22,592	824,611	931,323	----	2,694
1952	12,997,451	16,977	807,070	913,908	205,485	3,016
1953	8,278,519	49,300	749,245	732,308	287,410	2,723
1954	7,829,651	39,058	901,293	744,768	296,797	2,695
1955	6,119,320	54,051	855,416	682,731	838,656	1,182
1956	14,320,549	59,171	735,869	718,968	1,168,519	1,233
1957	19,118,484	151,131	647,281	192,814	1,376,641	767
1958	17,282,766	166,962	632,618	45,955	1,728,680	911
1959	17,262,261	129,534	505,947	35,011	1,785,228	----
1960	14,876,148	120,903	351,032	1,580	2,026,787	147
1961	11,711,327	151,782	412,453	2,050	2,002,709	----
1962	3,222,580	200,304	515,816	1,075	1,782,955	694
1963	1,951,461	240,611	584,192	1,225	2,093,063	8,445
1964	1,815,363	263,885	446,655	----	1,100,147	5,775
1965	4,803,906	328,686	480,325	10,765	1,422,364	697
1966	12,376,390	330,843	489,088	4,165	1,190,197	3,575
1967	11,716,488	324,386	449,874	19,771	1,412,513	2,590
1968	16,015,581	351,657	312,483	10,465	2,274,770	7,239

TABLE 20
YEARLY LANDINGS IN POUNDS
Mollusks

Year	Abalone	Eastern oyster	Pacific oyster	Squid
1916	762,001	1,969,519	----	275,620
1917	637,780	816,276	----	439,438
1918	602,919	1,360,685	----	361,714
1919	759,203	1,515,425	----	3,698,242
1920	806,716	1,121,160	----	508,199
1921	1,481,170	767,124	----	432,559
1922	1,523,394	743,252	----	209,641
1923	1,555,134	688,103	----	1,180,446
1924	2,241,812	526,775	----	6,831,029
1925	2,352,861	569,003	----	1,891,220
1926	2,060,770	610,422	----	3,135,561
1927	2,816,530	554,921	----	6,014,113
1928	2,066,243	726,298	----	1,351,992
1929	3,438,858	437,245	----	4,660,572
1930	3,176,513	582,367	----	10,969,462
1931	3,262,166	456,255	----	1,738,621
1932	2,817,345	290,571	----	4,229,743
1933	2,756,188	340,003	68,762	824,543
1934	3,223,492	518,600	50,240	1,530,450
1935	3,870,921	346,682	299,375	815,944
1936	3,302,195	318,912	310,683	945,439
1937	2,863,175	364,649	680,081	501,662
1938	2,121,468	280,742	1,207,421	1,599,319
1939	1,804,440	130,684	1,659,355	1,162,056
1940	1,724,084	113,360	1,292,505	1,800,632
1941	1,002,330	102,040	1,717,781	1,431,136
1942	164,462	92,426	609,233	943,783
1943	680,274	79,878	741,105	9,164,361
1944	1,630,402	106,896	636,686	10,936,595
1945	2,429,312	65,581	309,738	15,225,664
1946	2,095,762	84,603	88,006	38,024,528
1947	2,669,285	133,779	46,035	14,542,649
1948	3,195,852	331,238	166,524	19,255,687
1949	3,599,998	46,535	235,134	6,859,129
1950	3,954,791	117,079	143,612	5,996,335
1951	4,084,190	178,716	133,700	12,382,869
1952	4,784,033	163,485	190,638	3,670,923
1953	4,720,350	129,733	161,520	8,917,114
1954	4,099,525	124,928	460,620	8,155,105
1955	4,185,875	140,918	1,635,067	14,271,968
1956	4,284,063	142,181	6,101,220	19,483,984
1957	5,421,914	119,834	11,067,646	12,449,121
1958	4,224,018	32,087	9,599,062	7,457,418
1959	4,561,827	8,733	13,759,192	19,653,013
1960	4,266,408	2,072	10,686,856	2,561,520
1961	4,553,766	105,726	10,047,550	10,285,791
1962	4,183,181	95,100	11,043,732	9,368,149
1963	4,333,879	*13,502	*1,255,515	11,560,854
1964	4,079,223	4,910	1,354,737	16,433,624
1965	4,576,084	7,982	1,054,810	18,619,893
1966	4,963,556	12,925	787,502	19,025,879
1967	4,421,581	12,710	729,431	19,601,922
1968	4,474,842	16,166	645,553	24,932,713

* Beginning in 1963 oyster landings have been reported as the weight of the packed meats rather than as weight in the shell.

TABLE 21
YEARLY LANDINGS IN POUNDS
Animal food *

1961	3,777,133	1965	2,873,650
1962	1,879,811	1966	2,380,223
1963	1,033,961	1967	2,596,118
1964	1,738,441	1968	2,589,634

* Unmarketable whole fish destined to be ground and frozen for use by fur breeders.

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